



# ESCUELA SUPERIOR DE CÓMPUTO

#### **NOMBRES:**

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**GRUPO:** 

4BM1

TRABAJO:

Practica 8

"Algoritmo K-Means"

#### **MATERIA:**

Fundamentos de Inteligencia Artificial

#### **FECHA**

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# PRACTICA 9. Algoritmo K-Means

#### RESUMEN

El presente informe tuvo como objetivo aplicar el algoritmo de clustering K-Means a un conjunto de datos de equipos de fútbol, con el fin de agruparlos en categorías según sus calificaciones ofensivas y defensivas. El análisis se realizará utilizando el módulo scikit-learn en Python y se presentarán gráficas de codo y dispersión para evaluar la calidad de los clusters.

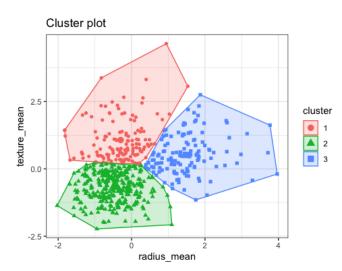
## INTRODUCCIÓN

El algoritmo K-Means es un método de agrupamiento no supervisado que busca dividir un conjunto de instancias en K grupos, donde cada instancia pertenece al grupo cuyo valor medio es más cercano.

El módulo scikit-learn es un módulo para aprendizaje de máquina en Python que incluye una implementación de K-Means, el cual puede ser utilizado para aplicar este algoritmo en conjuntos de datos. La implementación de K-Means en scikit-learn se encuentra en la clase sklearn. clúster. KMeans, la cual permite ajustar el modelo a los datos y predecir las etiquetas de los clústeres

Para obtener el valor óptimo de K, se pueden utilizar técnicas como la "gráfica del codo" (elbow method), que consiste en graficar la inercia (una métrica basada en la distancia) en función del número de clústeres y elegir el punto en el que la inercia comienza a disminuir de forma lineal, lo que indica el número óptimo de clústeres.

La implementación de K-Means en Python es relativamente sencilla, lo que lo hace popular para el análisis de agrupamiento, y scikit-learn proporciona una forma robusta de aplicar este algoritmo en conjuntos de datos.



#### **DESARROLLO**

Para realizar el clustering de los equipos de fútbol según sus calificaciones ofensivas y defensivas, se empleó el algoritmo de K-Means utilizando el módulo scikit-learn en Python. A continuación, se detalla el proceso paso a paso:

## Carga de Datos:

Se cargaron los datos desde el archivo CSV proporcionado ('global\_rankings.csv') utilizando la biblioteca panda.

## Código

```
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
from sklearn.cluster import KMeans
from random import randint
```

#### Selección de Atributos:

Se seleccionaron los atributos relevantes para el clustering, que son la calificación ofensiva ('Cal Ofensiva') y la calificación defensiva ('Cal Defensiva').

## Código

```
dataframe = pd.read_csv('global_rankings.csv')

X = pd.DataFrame()
X['off'] = dataframe['off']
X['def'] = dataframe['def']
```

#### Definición de Colores y Listas:

Se definieron colores para visualizar los clusters y se inicializó una lista para almacenar las inercias.

### Código

```
colores =['red','orange','green','pink','blue', 'purple', 'lime', 'skyblue', 'yellow', 'tomato']
inertias = []
```

Iteración sobre Diferentes Valores de K:

Se realizó un bucle para iterar sobre diferentes valores de k (número de clusters) desde 1 hasta 10.

Se creó un modelo K-Means con el valor actual de k y se ajustó a los datos.

## Código

```
for k in range(1, 11):
    kmeansModel = KMeans(n_clusters = k)
    kmeansModel.fit(X)
```

Asignación de Etiquetas y Guardado del Resultado:

Se asignaron las etiquetas de clúster a cada instancia en el conjunto de datos y se guardaron en un nuevo archivo CSV llamado 'rankingEtiquetado.csv'.

## Código

```
etiquetas = kmeansModel.predict(X)
inertias.append(kmeansModel.inertia_)

dataframe['etiquetas'] = etiquetas
dataframe.to_csv('rankingEtiquetado.csv')
```

Visualización de Clusters:

Se crearon gráficas de dispersión para visualizar cómo los equipos se distribuyen en el espacio definido por las calificaciones ofensivas y defensivas.

# Código:

```
coloresEtiquetas = [colores[i] for i in etiquetas]
ax = plt.axes()
ax.set_title(f'Global Club Soccer Rankings. Valor k = {k}')
ax.scatter(X['off'], X['def'], c = coloresEtiquetas)
plt.xlabel('Ofensiva')
plt.ylabel('Defensiva')
plt.grid(color='gray', linestyle='--', linewidth = 0.5)
plt.show()
```

# Creación de gráfica de Codo:

Se generó una gráfica de codo para evaluar la inercia del modelo en función del número de clusters. La inercia representa la suma de las distancias al cuadrado entre las instancias y los centroides de sus clusters.

```
plt.figure(figsize=(16,8))
plt.plot(range(1, 11), inertias, 'bx-')
plt.xlabel('k')
plt.ylabel('Inercia')
plt.xticks(range(1, 11))
plt.title('Método del codo para mostrar el valor óptimo de K')
plt.show()
```

#### Datos de entrada

rank	name	off	def
1	Manchester City	2.79	0.28
2	Bayern Munich	3.04	0.68
3	Barcelona	2.45	0.43
4	Real Madrid	2.56	0.6
5	Liverpool	2.63	0.67
6	Arsenal	2.53	0.61
7	Newcastle	2.38	0.53
8	Napoli	2.3	0.51
9	Borussia Dortmund	2.83	0.84
10	Brighton and Hove Albion	2.47	0.73
11	RB Leipzig	2.39	0.7
12	Benfica	2.4	0.73
13	Aston Villa	2.01	0.51
14	Atletico Madrid	2.26	0.67
15	Paris Saint-Germain	2.62	0.91
16	Manchester United	2.35	0.74
17	Internazionale	2.33	0.76
18	Ajax	2.66	1.03
19	Lille	2.07	0.64
20	Brentford	2.1	0.67
21	Real Sociedad	1.87	0.52
22	Sporting CP	2.07	0.66
23	FC Porto	2.16	0.72
24	Chelsea	2.04	0.68
25	Feyenoord	2.28	0.87
26	Lyon	2.28	0.88
27	Stade Rennes	2.01	0.69
28	Bayer Leverkusen	2.03	0.72
29	Athletic Bilbao	1.84	0.59
30	Celtic	2.53	1.07
31	Zenit St Petersburg	2.02	0.73
32	Fiorentina	2.07	0.76
33	FC Twente	2.22	0.88
34	Marseille	2.05	0.77
35	PSV	2.38	1.02

36	Crystal Palace	1.81	0.62
37	Villarreal	2.14	0.86
38	Lens	1.96	0.73
39	AC Milan	2.05	0.8
40	AS Roma	1.82	0.65
41	FC Salzburg	2.06	0.83
42	FC Cologne	2.03	0.81
43	Tottenham Hotspur	2.19	0.95
44	Rangers	2.25	1
45	Eintracht Frankfurt	2.07	0.88
46	West Ham United	1.94	0.81
47	Atalanta	2.1	0.93
48	VfL Wolfsburg	2.07	0.92
49	Juventus	1.89	0.81
50	Torino	1.7	0.66
51	Sevilla FC	1.81	0.77
52	Mainz	2.11	1.02
53	Palmeiras	1.78	0.78
54	Valencia	1.73	0.75
55	Lazio	1.77	0.79
56	Fulham	1.9	0.9
57	Besiktas	2.14	1.1
58	Celta Vigo	1.72	0.77
59	Nice	1.75	0.8
60	VfB Stuttgart	1.96	0.97
61	Borussia	2.1	1.09
	Monchengladbach		
62	Galatasaray	2	1.01
63	AZ	1.92	0.96
64	Girona FC	1.93	0.97
65	Real Betis	1.73	0.82
66	SC Freiburg	1.91	0.99
67	Flamengo	1.9	0.99
68	Strasbourg	1.78	0.89
69	1. FC Union Berlin	1.71	0.84
70	Osasuna	1.63	0.8
71	Young Boys	2.1	1.21

72	Atletico Mineiro	1.54	0.76
73	Getafe	1.51	0.73
74	AS Monaco	1.95	1.11
75	Leicester City	1.87	1.04
76	KAA Gent	1.93	1.1
77	Reims	1.72	0.94
78	Bologna	1.79	1
79	Werder Bremen	1.93	1.11
80	Fenerbahce	2.01	1.19
81	Monterrey	1.58	0.83
82	Everton	1.82	1.03
83	TSG Hoffenheim	1.96	1.17
84	Sassuolo	1.9	1.12
85	Slavia Prague	1.83	1.06
86	Braga	1.78	1.02
87	Bodo/Glimt	2.15	1.34
88	Burnley	1.53	0.82
89	Rayo Vallecano	1.66	0.93
90	Olympiacos	1.69	0.98
91	Dinamo Zagreb	1.8	1.09
92	Genk	2.07	1.33
93	Clermont Foot	1.61	0.94
94	AEK Athens	1.59	0.93
95	Club Brugge	1.85	1.16
96	Tigres UANL	1.55	0.91
97	Club América	1.8	1.14
98	Toulouse	1.64	1.03
99	Udinese	1.67	1.06
100	Lecce	1.46	0.88
101	Mallorca	1.51	0.93
102	Antwerp	1.55	0.96
103	AFC Bournemouth	1.68	1.08
104	Schalke 04	1.81	1.2
105	CSKA Moscow	1.54	0.96
106	Wolverhampton	1.55	0.99
107	Leeds United	1.84	1.25
108	SK Sturm Graz	1.71	1.14
109	River Plate	1.61	1.05
110	Espanyol	1.86	1.27
111	Monza	1.69	1.12
112	Vitesse	1.65	1.08
113	São Paulo	1.53	0.99
114	Montpellier	1.77	1.21
115	SlovÃjcko	1.77	1.21
116	Red Star Belgrade	1.75	1.19
117	Cadiz	1.52	0.99
118	Adana Demirspor	1.89	1.33
119	FC Copenhagen	1.75	1.2
120	Union Saint Gilloise	1.82	1.28
121	Botafogo	1.46	0.95
122	FC Utrecht	1.78	1.25
123	Shakhtar Donetsk	1.77	1.24
124	Elche	1.62	1.11
125	Almeria	1.69	1.18
126	FC Augsburg	1.73	1.22
127	Southampton	1.66	1.18
		1.50	

128	Sheffield United	1.49	1.03
129	VfL Bochum	1.84	1.37
130	Fluminense	1.53	1.08
131	Nottingham Forest	1.64	1.19
132	Sparta	1.7	1.25
133	Middlesbrough	1.6	1.17
134	Brest	1.49	1.06
135	FC Midtjylland	1.67	1.24
136	Luton Town	1.35	0.94
137	Pachuca	1.59	1.17
138	Viktoria Plzen	1.82	1.41
139	FC Krasnodar	1.7	1.31
140	Ferencvaros	1.61	1.22
141	Internacional	1.38	1.02
142	Lokomotiv Moscow	1.62	1.26
143	Trabzonspor	1.8	1.44
144	Real Valladolid	1.55	1.2
145	Hertha Berlin	1.71	1.36
146	Philadelphia Union	1.64	1.29
147	Lorient	1.46	1.12
148	Bragantino	1.48	1.15
149	Empoli	1.57	1.25
150	Los Angeles FC	1.6	1.28
151	Spartak Moscow	1.58	1.26
152	Dynamo Kiev	1.51	1.19
153	Fortaleza	1.3	1
154	Ipswich Town	1.62	1.31
155	Guimaraes	1.26	0.96
156	Istanbul Basaksehir	1.39	1.1
157	Molde	1.83	1.54
158	Anderlecht	1.46	1.18
159	León	1.35	1.07
160	Atlético Paranaense	1.38	1.11
161	SC Dnipro-1	1.55	1.28
162	Atlas	1.41	1.14
163	Lech Poznan	1.42	1.15
164	Swansea City	1.5	1.23
165	FK Austria Vienna	1.73	1.46
166	Steaua Bucuresti	1.5	1.24
167	Fatih Karagümrük	1.82	1.56
168	Terek Grozny	1.46	1.2
169	Go Ahead Eagles	1.65	1.39
170	Yokohama F. Marinos	1.75	1.49
171	Cercle Brugge	1.62	1.38
172	FC Sheriff Tiraspol	1.51	1.27
173	FK Partizan Belgrade	1.41	1.17
174	Nantes	1.35	1.11
175	LASK Linz	1.53	1.3
176	Vasco da Gama	1.44	1.21
177	Corinthians	1.23	1
178	Coventry City	1.28	1.06
179	PAOK Salonika	1.4	1.18
180	Guadalajara	1.35	1.13
181	Santos	1.26	1.04
182	Famalicao	1.44	1.24
183	Verona	1.37	1.18

184	Cruz Azul	1.32	1.13
185	Vissel Kobe	1.48	1.3
186	Konyaspor	1.42	1.24
187	Metz	1.32	1.15
188	Boavista	1.39	1.22
189	Frosinone	1.37	1.19
190	Heerenveen	1.66	1.49
191	Cruzeiro	1.36	1.19
192	Talleres de Córdoba	1.34	1.17
193	Argentinos Juniors	1.27	1.11
194	FK Qarabag	1.41	1.25
195	Maccabi Haifa	1.69	1.54
196	Malmo FF	1.59	1.44
197	Hapoel Be'er	1.49	1.34
198	BK Hacken	1.77	1.64
199	Spezia	1.45	1.32
200	NEC	1.54	1.41
201	Toluca	1.56	1.44
202	Salernitana	1.48	1.36
203	West Bromwich Albion	1.37	1.25
204	Gil Vicente	1.36	1.24
205	Rapid Vienna	1.58	1.47
206	Chaves	1.4	1.29
207	Auxerre	1.33	1.21
208	Cagliari	1.22	1.11
209	FC Cincinnati	1.49	1.4
210	Vizela	1.23	1.12
211	Santos Laguna	1.43	1.35
212	Stoke City	1.25	1.15
213	AGF Aarhus	1.28	1.19
214	Cremonese	1.47	1.4
215	FC Arouca	1.18	1.09
216	Gazovik Orenburg	1.55	1.48
217	Boca Juniors	1.13	1.03
218	Atlanta United FC	1.56	1.5
219	Panathinaikos	0.97	0.87
220	Millwall	1.33	1.25
221	Genoa	1.24	1.16
222	Aris Salonika	1.4	1.34
223	Grêmio	1.41	1.35
224	Angers	1.33	1.27
225	Estudiantes	1.18	1.12
226	Dinamo Moscow	1.43	1.4
227	Nashville SC	1.3	1.27
228	St Gallen	1.67	1.67
229	Casa Pia	1.24	1.2
230	St Etienne	1.54	1.53
231	Rio Ave	1.25	1.22
232	Urawa Red Diamonds	1.19	1.17
233	Sunderland	1.34	1.35
234	BahÃa	1.25	1.25
235	Norwich City	1.23	1.23
236	Brondby	1.57	1.61
237	Watford	1.28	1.29
238 239	IF Elfsborg	1.5 1.12	1.53 1.12
	Bordeaux		

240	América Mineiro	1.31	1.34
241	KVC Westerlo	1.56	1.62
242	Kawasaki Frontale	1.39	1.44
243	AEK Larnaca	1.16	1.18
244	Apollon Limassol	1.21	1.24
245	Columbus Crew	1.44	1.5
246	Seattle Sounders FC	1.31	1.35
247	FC Lugano	1.45	1.51
248	New York City FC	1.3	1.35
249	OH Leuven	1.44	1.53
250	New York Red Bulls	1.13	1.18
251	San Lorenzo	0.92	0.95
252	Blackburn	1.18	1.23
253	Santa Clara	1.25	1.33
254	FC St. Pauli	1.3	1.39
255	Rostov	1.36	1.46
256	Maritimo	1.3	1.4
257	Hibernian	1.33	1.43
258	Bristol City	1.17	1.25
259	Hearts	1.4	1.52
260	Rosenborg	1.54	1.67
261	FC Nordsjaelland	1.34	1.46
262	Lanus	1.19	1.29
263	CFR 1907 Cluj	1.22	1.33
264	Orlando City SC	1.35	1.47
265	Wolfsberger AC	1.43	1.58
266	Levante	1.05	1.15
267	Viborg	1.18	1.3
268	DC United	1.32	1.46
269	Kashima Antlers	1.18	1.3
270	Tenerife	1	1.09
271	FC Dallas	1.2	1.33
272 273	New England Revolution  Cuiaba	1.41 1.09	1.57
	Basel	1.39	1.58
274 275	Vancouver Whitecaps	1.59	1.59
276	Ludogorets	1.3	1.49
277	Nagoya Grampus Eight	1.11	1.43
278	Hamburg SV	1.53	1.75
279	Parma	1.11	1.27
280	Puebla	1.32	1.52
281	Sampdoria	1.36	1.57
282	Standard Liege	1.37	1.58
283	Motherwell	1.24	1.43
284	Silkeborg	1.37	1.59
285	FC Andorra	1.05	1.21
286	Sporting de Charleroi	1.32	1.54
287	FC Zurich	1.35	1.57
288	St. Truidense	1.08	1.26
289	Velez Sarsfield	0.97	1.14
290	Pumas Unam	1.25	1.47
291	SC Paderborn	1.44	1.69
292	Portimonense	1.16	1.37
293	Defensa y Justicia	1.09	1.29
294	Bastia	1.2	1.42
295	Estoril Praia	1.16	1.38

297       Granada       0.99         298       Bari       1.1         299       Mamelodi Sundowns       1.04         300       Sanfrecce Hiroshima       1.17         301       Servette       1.33         302       Atlético San Luis       1.18         303       Los Angeles Galaxy       1.4         304       FC Volendam       1.47         305       RKC       1.45         306       Caen       1.18         307       Odense BK       1.35         308       GoiÃis       1.11         309       Sivasspor       1.25         310       Kasimpasa       1.3         311       Coritiba       1.09         312       Guingamp       1.13         313       Tigre       1.09         314       Minnesota United FC       1.28         315       F.B.C Unione Venezia       1.24         316       Necaxa       1.05         317       Rosario Central       1.11         318       Hull City       1.05         319       Fortuna Düsseldorf       1.27         320       Lillestrom       1.38	1.54 1.19 1.32 1.25 1.41 1.61 1.44 1.7
298       Bari       1.1         299       Mamelodi Sundowns       1.04         300       Sanfrecce Hiroshima       1.17         301       Servette       1.33         302       Atlético San Luis       1.18         303       Los Angeles Galaxy       1.4         304       FC Volendam       1.47         305       RKC       1.45         306       Caen       1.18         307       Odense BK       1.35         308       Goiás       1.11         309       Sivasspor       1.25         310       Kasimpasa       1.3         311       Coritiba       1.09         312       Guingamp       1.13         313       Tigre       1.09         314       Minnesota United FC       1.28         315       F.B.C Unione Venezia       1.24         316       Necaxa       1.05         317       Rosario Central       1.11         318       Hull City       1.05         319       Fortuna Düsseldorf       1.27         320       Lillestrom       1.32         321       Kayserispor       1.38 </th <th>1.32 1.25 1.41 1.61 1.44 1.7</th>	1.32 1.25 1.41 1.61 1.44 1.7
299       Mamelodi Sundowns       1.04         300       Sanfrecce Hiroshima       1.17         301       Servette       1.33         302       AtlÃ@tico San Luis       1.18         303       Los Angeles Galaxy       1.4         304       FC Volendam       1.47         305       RKC       1.45         306       Caen       1.18         307       Odense BK       1.35         308       GoiÃis       1.11         309       Sivasspor       1.25         310       Kasimpasa       1.3         311       Coritiba       1.09         312       Guingamp       1.13         313       Tigre       1.09         314       Minnesota United FC       1.28         315       F.B.C Unione Venezia       1.24         316       Necaxa       1.05         317       Rosario Central       1.11         318       Hull City       1.05         319       Fortuna Düsseldorf       1.27         320       Lillestrom       1.32         321       Kayserispor       1.38         322       Aberdeen       1.14	1.25 1.41 1.61 1.44 1.7
300       Sanfrecce Hiroshima       1.17         301       Servette       1.33         302       Atlético San Luis       1.18         303       Los Angeles Galaxy       1.4         304       FC Volendam       1.47         305       RKC       1.45         306       Caen       1.18         307       Odense BK       1.35         308       GoiÃjs       1.11         309       Sivasspor       1.25         310       Kasimpasa       1.3         311       Coritiba       1.09         312       Guingamp       1.13         313       Tigre       1.09         314       Minnesota United FC       1.28         315       F.B.C Unione Venezia       1.24         316       Necaxa       1.05         317       Rosario Central       1.11         318       Hull City       1.05         319       Fortuna Düsseldorf       1.27         320       Lillestrom       1.32         321       Kayserispor       1.38         322       Aberdeen       1.14         323       Paris FC       1.06	1.41 1.61 1.44 1.7
301       Servette       1.33         302       Atlético San Luis       1.18         303       Los Angeles Galaxy       1.4         304       FC Volendam       1.47         305       RKC       1.45         306       Caen       1.18         307       Odense BK       1.35         308       GoiÃis       1.11         309       Sivasspor       1.25         310       Kasimpasa       1.3         311       Coritiba       1.09         312       Guingamp       1.13         313       Tigre       1.09         314       Minnesota United FC       1.28         315       F.B.C Unione Venezia       1.24         316       Necaxa       1.05         317       Rosario Central       1.11         318       Hull City       1.05         319       Fortuna Düsseldorf       1.27         320       Lillestrom       1.32         321       Kayserispor       1.38         322       Aberdeen       1.14         323       Paris FC       1.06         324       Preston North End       1.12	1.61 1.44 1.7
302 AtlÃ⊚tico San Luis 303 Los Angeles Galaxy 304 FC Volendam 1.47 305 RKC 306 Caen 307 Odense BK 307 Odense BK 308 GoiÃis 308 GoiÃis 310 Kasimpasa 311 Coritiba 311 Coritiba 312 Guingamp 312 Guingamp 313 Tigre 314 Minnesota United FC 315 F.B.C Unione Venezia 316 Necaxa 317 Rosario Central 318 Hull City 319 Fortuna Dþsseldorf 320 Lillestrom 321 Kayserispor 322 Aberdeen 323 Paris FC 324 Preston North End 325 SK Brann 326 Real Zaragoza 327 Omonia Nicosia 329 Albacete 310 1.47 320 Lillestrom 321 Coritiba 323 Antalyaspor 324 Preston Rorth End 325 SK Brann 326 Real Zaragoza 327 Omonia Nicosia 328 Sporting Kansas City 329 Albacete 330 Antalyaspor 318 1.47 327 328 Sporting Kansas City 329 Albacete 310 1.47 321 1.48 323 Antalyaspor 326 1.18	1.44 1.7
303       Los Angeles Galaxy       1.4         304       FC Volendam       1.47         305       RKC       1.45         306       Caen       1.18         307       Odense BK       1.35         308       GoiÃis       1.11         309       Sivasspor       1.25         310       Kasimpasa       1.3         311       Coritiba       1.09         312       Guingamp       1.13         313       Tigre       1.09         314       Minnesota United FC       1.28         315       F.B.C Unione Venezia       1.24         316       Necaxa       1.05         317       Rosario Central       1.11         318       Hull City       1.05         319       Fortuna Düsseldorf       1.27         320       Lillestrom       1.32         321       Kayserispor       1.38         322       Aberdeen       1.14         323       Paris FC       1.06         324       Preston North End       1.12         325       SK Brann       1.3         326       Real Zaragoza       0.92	1.7
304 FC Volendam 1.47 1.47 305 RKC 1.45 306 Caen 1.18 307 Odense BK 1.35 308 GoiÃis 1.11 309 Sivasspor 1.25 310 Kasimpasa 1.3 311 Coritiba 1.09 312 Guingamp 1.13 313 Tigre 1.09 314 Minnesota United FC 1.28 315 F.B.C Unione Venezia 1.24 316 Necaxa 1.05 317 Rosario Central 1.11 318 Hull City 1.05 319 Fortuna Düsseldorf 1.27 320 Lillestrom 1.32 321 Kayserispor 1.38 322 Aberdeen 1.14 323 Paris FC 1.06 324 Preston North End 1.12 325 SK Brann 1.3 326 Real Zaragoza 0.92 327 Omonia Nicosia 329 Albacete 1.13 330 Antalyaspor 1.18	
305 RKC 1.45 1.18 306 Caen 1.18 307 Odense BK 1.35 308 GoiÃis 1.11 309 Sivasspor 1.25 310 Kasimpasa 1.3 311 Coritiba 1.09 312 Guingamp 1.13 313 Tigre 1.09 314 Minnesota United FC 1.28 315 F.B.C Unione Venezia 1.24 316 Necaxa 1.05 317 Rosario Central 1.11 318 Hull City 1.05 319 Fortuna Düsseldorf 1.27 320 Lillestrom 1.32 321 Kayserispor 1.38 322 Aberdeen 1.14 323 Paris FC 1.06 324 Preston North End 1.12 325 SK Brann 1.3 326 Real Zaragoza 0.92 327 Omonia Nicosia 329 Albacete 1.13 330 Antalyaspor 1.18	1 78
306       Caen       1.18         307       Odense BK       1.35         308       GoiÃis       1.11         309       Sivasspor       1.25         310       Kasimpasa       1.3         311       Coritiba       1.09         312       Guingamp       1.13         313       Tigre       1.09         314       Minnesota United FC       1.28         315       F.B.C Unione Venezia       1.24         316       Necaxa       1.05         317       Rosario Central       1.11         318       Hull City       1.05         319       Fortuna Düsseldorf       1.27         320       Lillestrom       1.32         321       Kayserispor       1.38         322       Aberdeen       1.14         323       Paris FC       1.06         324       Preston North End       1.12         325       SK Brann       1.3         326       Real Zaragoza       0.92         327       Omonia Nicosia       1.25         328       Sporting Kansas City       1.16         329       Albacete       1.13 <th>1.70</th>	1.70
307       Odense BK       1.35         308       GoiÃis       1.11         309       Sivasspor       1.25         310       Kasimpasa       1.3         311       Coritiba       1.09         312       Guingamp       1.13         313       Tigre       1.09         314       Minnesota United FC       1.28         315       F.B.C Unione Venezia       1.24         316       Necaxa       1.05         317       Rosario Central       1.11         318       Hull City       1.05         319       Fortuna Düsseldorf       1.27         320       Lillestrom       1.32         321       Kayserispor       1.38         322       Aberdeen       1.14         323       Paris FC       1.06         324       Preston North End       1.12         325       SK Brann       1.3         326       Real Zaragoza       0.92         327       Omonia Nicosia       1.25         328       Sporting Kansas City       1.16         329       Albacete       1.13         330       Antalyaspor       1.18	1.76
308       GoiÃis       1.11         309       Sivasspor       1.25         310       Kasimpasa       1.3         311       Coritiba       1.09         312       Guingamp       1.13         313       Tigre       1.09         314       Minnesota United FC       1.28         315       F.B.C Unione Venezia       1.24         316       Necaxa       1.05         317       Rosario Central       1.11         318       Hull City       1.05         319       Fortuna Düsseldorf       1.27         320       Lillestrom       1.32         321       Kayserispor       1.38         322       Aberdeen       1.14         323       Paris FC       1.06         324       Preston North End       1.12         325       SK Brann       1.3         326       Real Zaragoza       0.92         327       Omonia Nicosia       1.25         328       Sporting Kansas City       1.16         329       Albacete       1.13         330       Antalyaspor       1.18	1.44
309       Sivasspor       1.25         310       Kasimpasa       1.3         311       Coritiba       1.09         312       Guingamp       1.13         313       Tigre       1.09         314       Minnesota United FC       1.28         315       F.B.C Unione Venezia       1.24         316       Necaxa       1.05         317       Rosario Central       1.11         318       Hull City       1.05         319       Fortuna Düsseldorf       1.27         320       Lillestrom       1.32         321       Kayserispor       1.38         322       Aberdeen       1.14         323       Paris FC       1.06         324       Preston North End       1.12         325       SK Brann       1.3         326       Real Zaragoza       0.92         327       Omonia Nicosia       1.25         328       Sporting Kansas City       1.16         329       Albacete       1.13         330       Antalyaspor       1.18	1.65
310       Kasimpasa       1.3         311       Coritiba       1.09         312       Guingamp       1.13         313       Tigre       1.09         314       Minnesota United FC       1.28         315       F.B.C Unione Venezia       1.24         316       Necaxa       1.05         317       Rosario Central       1.11         318       Hull City       1.05         319       Fortuna Düsseldorf       1.27         320       Lillestrom       1.32         321       Kayserispor       1.38         322       Aberdeen       1.14         323       Paris FC       1.06         324       Preston North End       1.12         325       SK Brann       1.3         326       Real Zaragoza       0.92         327       Omonia Nicosia       1.25         328       Sporting Kansas City       1.16         329       Albacete       1.13         330       Antalyaspor       1.18	1.36
311       Coritiba       1.09         312       Guingamp       1.13         313       Tigre       1.09         314       Minnesota United FC       1.28         315       F.B.C Unione Venezia       1.24         316       Necaxa       1.05         317       Rosario Central       1.11         318       Hull City       1.05         319       Fortuna Düsseldorf       1.27         320       Lillestrom       1.32         321       Kayserispor       1.38         322       Aberdeen       1.14         323       Paris FC       1.06         324       Preston North End       1.12         325       SK Brann       1.3         326       Real Zaragoza       0.92         327       Omonia Nicosia       1.25         328       Sporting Kansas City       1.16         329       Albacete       1.13         330       Antalyaspor       1.18	1.53
312       Guingamp       1.13         313       Tigre       1.09         314       Minnesota United FC       1.28         315       F.B.C Unione Venezia       1.24         316       Necaxa       1.05         317       Rosario Central       1.11         318       Hull City       1.05         319       Fortuna Düsseldorf       1.27         320       Lillestrom       1.32         321       Kayserispor       1.38         322       Aberdeen       1.14         323       Paris FC       1.06         324       Preston North End       1.12         325       SK Brann       1.3         326       Real Zaragoza       0.92         327       Omonia Nicosia       1.25         328       Sporting Kansas City       1.16         329       Albacete       1.13         330       Antalyaspor       1.18	1.59
313 Tigre 1.09 1 314 Minnesota United FC 1.28 1 315 F.B.C Unione Venezia 1.24 1 316 Necaxa 1.05 1 317 Rosario Central 1.11 1 318 Hull City 1.05 1 319 Fortuna Düsseldorf 1.27 1 320 Lillestrom 1.32 1 321 Kayserispor 1.38 1 322 Aberdeen 1.14 1 323 Paris FC 1.06 1 324 Preston North End 1.12 1 325 SK Brann 1.3 1 326 Real Zaragoza 0.92 1 327 Omonia Nicosia 1.25 1 328 Sporting Kansas City 1.16 1 329 Albacete 1.13 1 330 Antalyaspor 1.18 1	1.35
314       Minnesota United FC       1.28         315       F.B.C Unione Venezia       1.24         316       Necaxa       1.05         317       Rosario Central       1.11         318       Hull City       1.05         319       Fortuna Düsseldorf       1.27         320       Lillestrom       1.32         321       Kayserispor       1.38         322       Aberdeen       1.14         323       Paris FC       1.06         324       Preston North End       1.12         325       SK Brann       1.3         326       Real Zaragoza       0.92         327       Omonia Nicosia       1.25         328       Sporting Kansas City       1.16         329       Albacete       1.13         330       Antalyaspor       1.18	1.4
315       F.B.C Unione Venezia       1.24         316       Necaxa       1.05         317       Rosario Central       1.11         318       Hull City       1.05         319       Fortuna Düsseldorf       1.27         320       Lillestrom       1.32         321       Kayserispor       1.38         322       Aberdeen       1.14         323       Paris FC       1.06         324       Preston North End       1.12         325       SK Brann       1.3         326       Real Zaragoza       0.92         327       Omonia Nicosia       1.25         328       Sporting Kansas City       1.16         329       Albacete       1.13         330       Antalyaspor       1.18	1.36
316 Necaxa 1.05 1.05 1.11 1.11 1.11 1.11 1.11 1.11	1.58
317       Rosario Central       1.11         318       Hull City       1.05         319       Fortuna Düsseldorf       1.27         320       Lillestrom       1.32         321       Kayserispor       1.38         322       Aberdeen       1.14         323       Paris FC       1.06         324       Preston North End       1.12         325       SK Brann       1.3         326       Real Zaragoza       0.92         327       Omonia Nicosia       1.25         328       Sporting Kansas City       1.16         329       Albacete       1.13         330       Antalyaspor       1.18	1.53
318       Hull City       1.05         319       Fortuna Düsseldorf       1.27         320       Lillestrom       1.32         321       Kayserispor       1.38         322       Aberdeen       1.14         323       Paris FC       1.06         324       Preston North End       1.12         325       SK Brann       1.3         326       Real Zaragoza       0.92         327       Omonia Nicosia       1.25         328       Sporting Kansas City       1.16         329       Albacete       1.13         330       Antalyaspor       1.18	1.32
319       Fortuna Düsseldorf       1.27         320       Lillestrom       1.32         321       Kayserispor       1.38         322       Aberdeen       1.14         323       Paris FC       1.06         324       Preston North End       1.12         325       SK Brann       1.3         326       Real Zaragoza       0.92         327       Omonia Nicosia       1.25         328       Sporting Kansas City       1.16         329       Albacete       1.13         330       Antalyaspor       1.18	1.38
320       Lillestrom       1.32         321       Kayserispor       1.38         322       Aberdeen       1.14         323       Paris FC       1.06         324       Preston North End       1.12         325       SK Brann       1.3         326       Real Zaragoza       0.92         327       Omonia Nicosia       1.25         328       Sporting Kansas City       1.16         329       Albacete       1.13         330       Antalyaspor       1.18	1.31
321       Kayserispor       1.38         322       Aberdeen       1.14         323       Paris FC       1.06         324       Preston North End       1.12         325       SK Brann       1.3         326       Real Zaragoza       0.92         327       Omonia Nicosia       1.25         328       Sporting Kansas City       1.16         329       Albacete       1.13         330       Antalyaspor       1.18	1.58
322       Aberdeen       1.14         323       Paris FC       1.06         324       Preston North End       1.12         325       SK Brann       1.3         326       Real Zaragoza       0.92         327       Omonia Nicosia       1.25         328       Sporting Kansas City       1.16         329       Albacete       1.13         330       Antalyaspor       1.18	1.64
323       Paris FC       1.06         324       Preston North End       1.12         325       SK Brann       1.3         326       Real Zaragoza       0.92         327       Omonia Nicosia       1.25         328       Sporting Kansas City       1.16         329       Albacete       1.13         330       Antalyaspor       1.18	1.71
324       Preston North End       1.12       3         325       SK Brann       1.3       3         326       Real Zaragoza       0.92       3         327       Omonia Nicosia       1.25       3         328       Sporting Kansas City       1.16       3         329       Albacete       1.13       3         330       Antalyaspor       1.18       3	1.43
325       SK Brann       1.3         326       Real Zaragoza       0.92         327       Omonia Nicosia       1.25         328       Sporting Kansas City       1.16         329       Albacete       1.13         330       Antalyaspor       1.18	1.34
326       Real Zaragoza       0.92       327         327       Omonia Nicosia       1.25       328         328       Sporting Kansas City       1.16       329         Albacete       1.13       330         Antalyaspor       1.18       330	1.41
327       Omonia Nicosia       1.25         328       Sporting Kansas City       1.16         329       Albacete       1.13         330       Antalyaspor       1.18	1.63
328         Sporting Kansas City         1.16         329         329         Albacete         1.13         330         330         Antalyaspor         1.18         330	1.17
329         Albacete         1.13         3           330         Antalyaspor         1.18         3	1.57
<b>330</b> Antalyaspor 1.18	1.46
	1.43
	1.48
<b>331</b> FC Luzern 1.32	1.65
S .	1.48
	1.38
	1.71
<b>335</b> Alavés 0.85	1.1
·	1.09
	1.67
<b>338</b> Tijuana 1.18	1.5
	1.01
·	1.62
	1.29
	1.44
	1.27
	1.57
	2.01
	1.33
·	1.45
	1.85
	1.51
	1.57
<b>351</b> HuracÃin 0.9	

352	Djurgardens IF	1.21	1.58
353	Pacos Ferreira	1.1	1.45
354	FC JuÃjrez	1.02	1.36
355	Eibar	0.91	1.22
356	Viking FK	1.52	1.98
357	CA Independiente	1.04	1.38
358	Colon Santa Fe	1.04	1.4
359	Barnsley	1.26	1.67
360	Sochi	1.11	1.5
361	Charlotte FC	1.24	1.66
362	Birmingham	1.02	1.4
363	Alanyaspor	1.42	1.88
364	Cardiff City	1.04	1.41
365	WSG Swarovski Wattens	1.33	1.78
366	Las Palmas	0.91	1.27
367	Godoy Cruz	1	1.39
368	Banfield	0.92	1.29
369	Randers FC	1.18	1.63
370	SpVgg Greuther Fürth	1.12	1.55
371	Ankaragucu	1.06	1.48
372	Istanbulspor	1.17	1.61
373	Chicago Fire	1.18	1.63
374	Querétaro	0.98	1.39
375	Troyes	1.23	1.7
376	Fakel Voronezh	1.01	1.43
377	Wigan	0.92	1.32
378	FC Groningen	1.24	1.73
379	Excelsior	1.26	1.75
380	Austria Lustenau	1.31	1.82
381	Austin FC	1.24	1.73
382	Como	1.05	1.5
383	Sochaux	1.02	1.47
384	Houston Dynamo	1.21	1.71
385	Huddersfield Town Emmen	0.97	1.41
386 387	Grasshoppers Zürich	1.25 1.39	1.77 1.95
388		1.24	1.76
389	Valerenga	0.92	1.76
390	FK Nizhny Novgorod SK Austria Klagenfurt	1.32	1.89
391	Colorado Rapids	1.08	1.59
392	Queens Park Rangers	1.04	1.54
393	Hammarby	1.21	1.75
394	Holstein Kiel	1.33	1.91
395	SV Darmstadt 98	1.07	1.58
396	Real Salt Lake	1.09	1.61
397	MazatlÃjn FC	1.12	1.66
398	Instituto	1	1.5
399	Atlético TucumÃjn	0.93	1.41
400	Ballkani	1.2	1.76
401	Melbourne City	1.32	1.93
402	Leganes	0.86	1.33
403	FC Tokyo	1.17	1.74
404	Sarmiento	0.93	1.43
405	Platense	0.85	1.32
406	Hartberg	1.19	1.77
407	Pisa	0.93	1.44

408         Belgrano Cordoba         0.9         1.4           409         Cambuur Leeuwarden         1.25         1.86           410         Rotherham United         0.96         1.48           411         Gimnasia La Plata         0.86         1.36           412         Sudtirol         0.7         1.15           413         St. Louis CITY SC         1.12         1.72           414         Sagan Tosu         0.92         1.46           415         Bolton         0.89         1.42           416         Real Oviedo         0.78         1.28           417         Sarpsborg         1.14         1.76           418         Tromso         1.08         1.69           419         Umraniyespor         1.14         1.77           420         Palermo         1.05         1.68           421         Rigas Futbola Skola         1.16         1.88           422         AaB         0.99         1.58           423         Villarreal B         0.98         1.56           424         Giresunspor         1.06         1.63           425         1. FC Kaiserslautern         1.02         1.65	400	D	0.0	
410         Rotherham United         0.96         1.48           411         Gimnasia La Plata         0.86         1.36           412         Sudtirol         0.7         1.15           413         St. Louis CITY SC         1.12         1.72           414         Sagan Tosu         0.92         1.46           415         Bolton         0.89         1.42           416         Real Oviedo         0.78         1.28           417         Sarpsborg         1.14         1.76           418         Tromso         1.08         1.69           419         Umraniyespor         1.14         1.77           420         Palermo         1.05         1.66           421         Rigas Futbola Skola         1.16         1.8           422         AaB         0.99         1.58           423         Villarreal B         0.98         1.56           424         Giresunspor         1.06         1.63           425         1. FC Kaiserslautern         1.02         1.65           426         MÃilaga         0.79         1.34           427         Blackpool         1.06         1.7				
411         Gimnasia La Plata         0.86         1.36           412         Sudtirol         0.7         1.15           413         St. Louis CITY SC         1.12         1.72           414         Sagan Tosu         0.92         1.46           415         Bolton         0.89         1.42           416         Real Oviedo         0.78         1.28           417         Sarpsborg         1.14         1.76           418         Tromso         1.08         1.69           419         Umraniyespor         1.14         1.77           420         Palermo         1.05         1.66           421         Rigas Futbola Skola         1.16         1.8           422         AaB         0.99         1.58           423         Villarreal B         0.98         1.56           424         Giresunspor         1.06         1.68           425         1. FC Kaiserslautern         1.02         1.65           424         Giresunspor         1.06         1.68           425         1. FC Kaiserslautern         1.02         1.65           426         Mājaga         0.79         1.34				
412         Sudtirol         0.7         1.15           413         St. Louis CITY SC         1.12         1.72           414         Sagan Tosu         0.92         1.46           415         Bolton         0.89         1.42           416         Real Oviedo         0.78         1.28           417         Sarpsborg         1.14         1.76           418         Tromso         1.08         1.69           419         Umraniyespor         1.14         1.77           420         Palermo         1.05         1.66           421         Rigas Futbola Skola         1.16         1.8           422         AaB         0.99         1.58           423         Villarreal B         0.98         1.56           425         1. FC Kaiserslautern         1.02         1.65           426         Māļaga         0.79         1.34           427         Blackpool         1.06         1.7           428         Plymouth Argyle         1.02         1.66           429         Racing Santander         0.85         1.44           430         Dijon FCO         0.85         1.44				
413         St. Louis CITY SC         1.12         1.72           414         Sagan Tosu         0.92         1.46           415         Bolton         0.89         1.42           416         Real Oviedo         0.78         1.28           417         Sarpsborg         1.14         1.76           418         Tromso         1.08         1.69           419         Umraniyespor         1.14         1.77           420         Palermo         1.05         1.66           421         Rigas Futbola Skola         1.16         1.8           422         AaB         0.99         1.58           423         Villarreal B         0.98         1.56           424         Giresunspor         1.06         1.68           425         1. FC Kaiserslautern         1.02         1.65           426         Mālaga         0.79         1.34           427         Blackpool         1.06         1.7           428         Plymouth Argyle         1.02         1.66           429         Racing Santander         0.85         1.44           430         Dijon FCO         0.85         1.44				
414         Sagan Tosu         0.92         1.46           415         Bolton         0.89         1.42           416         Real Oviedo         0.78         1.28           417         Sarpsborg         1.14         1.76           418         Tromso         1.08         1.69           419         Umraniyespor         1.14         1.77           420         Palermo         1.05         1.66           421         Rigas Futbola Skola         1.16         1.8           422         AaB         0.99         1.58           423         Villarreal B         0.98         1.56           424         Giresunspor         1.06         1.68           425         1. FC Kaiserslautern         1.02         1.65           426         MÃilaga         0.79         1.34           427         Blackpool         1.06         1.7           428         Plymouth Argyle         1.02         1.66           429         Racing Santander         0.85         1.44           430         Dijon FCO         0.85         1.44           431         Central Cã³rdoba Santiago del Estero         0.87         1.47				
415         Bolton         0.89         1.42           416         Real Oviedo         0.78         1.28           417         Sarpsborg         1.14         1.76           418         Tromso         1.08         1.69           419         Umraniyespor         1.14         1.77           420         Palermo         1.05         1.66           421         Rigas Futbola Skola         1.16         1.8           422         AaB         0.99         1.58           423         Villarreal B         0.98         1.56           424         Giresunspor         1.06         1.68           425         1. FC Kaiserslautern         1.02         1.65           426         Māilaga         0.79         1.34           427         Blackpool         1.06         1.7           428         Plymouth Argyle         1.02         1.66           429         Racing Santander         0.85         1.44           430         Dijon FCO         0.85         1.44           431         Central Cā³rdoba Santiago del Estero         0.87         1.48           432         Barracas Central         0.87         1.48<				
416       Real Oviedo       0.78       1.28         417       Sarpsborg       1.14       1.76         418       Tromso       1.08       1.69         419       Umraniyespor       1.14       1.77         420       Palermo       1.05       1.66         421       Rigas Futbola Skola       1.16       1.8         422       AaB       0.99       1.58         423       Villarreal B       0.98       1.56         424       Giresunspor       1.06       1.68         425       1. FC Kaiserslautern       1.02       1.65         426       MÃilaga       0.79       1.34         427       Blackpool       1.06       1.7         428       Plymouth Argyle       1.02       1.66         429       Racing Santander       0.85       1.44         430       Dijon FCO       0.85       1.44         431       Central Cã³rdoba Santiago del Estero       0.87       1.47         432       Barracas Central       0.87       1.48         433       Zalgiris Vilnius       1.1       1.79         434       St Mirren       0.95       1.53				
417         Sarpsborg         1.14         1.76           418         Tromso         1.08         1.69           419         Umraniyespor         1.14         1.77           420         Palermo         1.05         1.66           421         Rigas Futbola Skola         1.16         1.8           422         AaB         0.99         1.58           423         Villarreal B         0.98         1.56           424         Giresunspor         1.06         1.68           425         1. FC Kaiserslautern         1.02         1.65           426         MÃilaga         0.79         1.34           427         Blackpool         1.06         1.7           428         Plymouth Argyle         1.02         1.66           429         Racing Santander         0.85         1.44           430         Dijon FCO         0.85         1.44           431         Central Córdoba Santiago del Estero         0.87         1.47           432         Barracas Central         0.87         1.48           433         Zalgiris Vilnius         1.1         1.79           434         St Mirren         0.95 <td< th=""><th>415</th><th></th><th>0.89</th><th></th></td<>	415		0.89	
418         Tromso         1.08         1.69           419         Umraniyespor         1.14         1.77           420         Palermo         1.05         1.66           421         Rigas Futbola Skola         1.16         1.8           422         AaB         0.99         1.58           423         Villarreal B         0.98         1.56           424         Giresunspor         1.06         1.68           425         1. FC Kaiserslautern         1.02         1.66           426         MÃilaga         0.79         1.34           427         Blackpool         1.06         1.7           428         Plymouth Argyle         1.02         1.66           429         Racing Santander         0.85         1.44           430         Dijon FCO         0.85         1.44           431         Central Córdoba Santiago del Estero         0.87         1.47           432         Barracas Central         0.87         1.48           433         Zalgiris Vilnius         1.1         1.79           434         St Mirren         0.95         1.53           435         Central Coast Mariners         1.27 <th></th> <th>Real Oviedo</th> <th></th> <th>1.28</th>		Real Oviedo		1.28
419         Umraniyespor         1.14         1.77           420         Palermo         1.05         1.66           421         Rigas Futbola Skola         1.16         1.8           422         AaB         0.99         1.58           423         Villarreal B         0.98         1.56           424         Giresunspor         1.06         1.63           425         1. FC Kaiserslautern         1.02         1.65           426         MÃilaga         0.79         1.34           427         Blackpool         1.06         1.7           428         Plymouth Argyle         1.02         1.66           429         Racing Santander         0.85         1.44           430         Dijon FCO         0.85         1.44           431         Central Córdoba Santiago         0.87         1.47           del Estero         0.87         1.47           432         Barracas Central         0.87         1.48           433         Zalgiris Vilnius         1.1         1.79           434         St Mirren         0.95         1.53           435         Central Coast Mariners         1.27         2.03	417	Sarpsborg	1.14	1.76
420         Palermo         1.05         1.66           421         Rigas Futbola Skola         1.16         1.8           422         AaB         0.99         1.58           423         Villarreal B         0.98         1.56           424         Giresunspor         1.06         1.68           425         1. FC Kaiserslautern         1.02         1.65           426         MÃilaga         0.79         1.34           427         Blackpool         1.06         1.7           428         Plymouth Argyle         1.02         1.66           429         Racing Santander         0.85         1.44           430         Dijon FCO         0.85         1.44           431         Central Că³rdoba Santiago         0.87         1.47           del Estero         0.87         1.47           432         Barracas Central         0.87         1.48           433         Zalgiris Vilnius         1.1         1.79           434         St Mirren         0.95         1.58           435         Central Coast Mariners         1.27         2.03           436         Union Santa Fe         0.85         1.46	418	Tromso	1.08	
421       Rigas Futbola Skola       1.16       1.8         422       AaB       0.99       1.58         423       Villarreal B       0.98       1.56         424       Giresunspor       1.06       1.68         425       1. FC Kaiserslautern       1.02       1.65         426       Māilaga       0.79       1.34         427       Blackpool       1.06       1.7         428       Plymouth Argyle       1.02       1.66         429       Racing Santander       0.85       1.44         430       Dijon FCO       0.85       1.44         431       Central Cã³rdoba Santiago del Estero       0.87       1.48         431       Central Cã³rdoba Santiago del Estero       0.87       1.48         433       Zalgiris Vilnius       1.1       1.79         434       3t Mirren       0.95       1.58         435       Central Coast Mariners       1.27       2.03         436       Union Santa Fe       0.85       1.46         437       Peterborough United       1.01       1.68         438       IFK Norrkoping       1.08       1.73         439       Derby County	419	Umraniyespor	1.14	1.77
422       AaB       0.99       1.58         423       Villarreal B       0.98       1.56         424       Giresunspor       1.06       1.68         425       1. FC Kaiserslautern       1.02       1.65         426       Māilaga       0.79       1.34         427       Blackpool       1.06       1.7         428       Plymouth Argyle       1.02       1.66         429       Racing Santander       0.85       1.44         430       Dijon FCO       0.85       1.44         431       Central Cã³rdoba Santiago del Estero       0.87       1.48         431       Central Cã³rdoba Santiago del Estero       0.87       1.48         432       Barracas Central       0.87       1.48         433       Zalgiris Vilnius       1.1       1.79         434       3t Mirren       0.95       1.58         435       Central Coast Mariners       1.27       2.03         436       Union Santa Fe       0.85       1.46         437       Peterborough United       1.01       1.68         438       IFK Norrkoping       1.08       1.78         439       Derby County	420	Palermo	1.05	1.66
423         Villarreal B         0.98         1.56           424         Giresunspor         1.06         1.68           425         1. FC Kaiserslautern         1.02         1.65           426         Māilaga         0.79         1.34           427         Blackpool         1.06         1.7           428         Plymouth Argyle         1.02         1.66           429         Racing Santander         0.85         1.44           430         Dijon FCO         0.85         1.44           431         Central Cã³rdoba Santiago del Estero         0.87         1.47           432         Barracas Central         0.87         1.48           433         Zalgiris Vilnius         1.1         1.79           434         St Mirren         0.95         1.58           435         Central Coast Mariners         1.27         2.03           436         Union Santa Fe         0.85         1.46           437         Peterborough United         1.01         1.68           438         IFK Norrkoping         1.08         1.78           439         Derby County         0.94         1.6           440         FC Cartagena </th <th>421</th> <th>Rigas Futbola Skola</th> <th>1.16</th> <th>1.8</th>	421	Rigas Futbola Skola	1.16	1.8
424         Giresunspor         1.06         1.68           425         1. FC Kaiserslautern         1.02         1.65           426         MÄilaga         0.79         1.34           427         Blackpool         1.06         1.7           428         Plymouth Argyle         1.02         1.66           429         Racing Santander         0.85         1.44           430         Dijon FCO         0.85         1.44           431         Central Córdoba Santiago del Estero         0.87         1.47           432         Barracas Central         0.87         1.48           433         Zalgiris Vilnius         1.1         1.79           434         St Mirren         0.95         1.58           435         Central Coast Mariners         1.27         2.03           436         Union Santa Fe         0.85         1.46           437         Peterborough United         1.01         1.68           438         IFK Norrkoping         1.08         1.78           439         Derby County         0.94         1.6           440         FC Cartagena         0.89         1.53           441         FC Vaduz	422	AaB	0.99	1.58
425         1. FC Kaiserslautern         1.02         1.65           426         MÃi laga         0.79         1.34           427         Blackpool         1.06         1.7           428         Plymouth Argyle         1.02         1.66           429         Racing Santander         0.85         1.44           430         Dijon FCO         0.85         1.44           431         Central Córdoba Santiago del Estero         0.87         1.47           432         Barracas Central         0.87         1.48           433         Zalgiris Vilnius         1.1         1.79           434         St Mirren         0.95         1.58           435         Central Coast Mariners         1.27         2.03           436         Union Santa Fe         0.85         1.46           437         Peterborough United         1.01         1.68           438         IFK Norrkoping         1.08         1.78           439         Derby County         0.94         1.6           440         FC Cartagena         0.89         1.53           441         FC Vaduz         0.96         1.63           442         Sporting Gijón<	423	Villarreal B	0.98	1.56
426       MÃi laga       0.79       1.34         427       Blackpool       1.06       1.7         428       Plymouth Argyle       1.02       1.66         429       Racing Santander       0.85       1.44         430       Dijon FCO       0.85       1.44         431       Central Córdoba Santiago del Estero       0.87       1.47         432       Barracas Central       0.87       1.48         433       Zalgiris Vilnius       1.1       1.79         434       St Mirren       0.95       1.58         435       Central Coast Mariners       1.27       2.03         436       Union Santa Fe       0.85       1.46         437       Peterborough United       1.01       1.68         438       IFK Norrkoping       1.08       1.78         439       Derby County       0.94       1.6         440       FC Cartagena       0.89       1.53         441       FC Vaduz       0.96       1.63         442       Sporting Gijón       0.85       1.48         443       KV Kortrijk       1.08       1.8         444       Inter Miami CF       1.05       <	424	Giresunspor	1.06	1.68
426       MÃi laga       0.79       1.34         427       Blackpool       1.06       1.7         428       Plymouth Argyle       1.02       1.66         429       Racing Santander       0.85       1.44         430       Dijon FCO       0.85       1.44         431       Central Córdoba Santiago del Estero       0.87       1.47         432       Barracas Central       0.87       1.48         433       Zalgiris Vilnius       1.1       1.79         434       St Mirren       0.95       1.58         435       Central Coast Mariners       1.27       2.03         436       Union Santa Fe       0.85       1.46         437       Peterborough United       1.01       1.68         438       IFK Norrkoping       1.08       1.78         439       Derby County       0.94       1.6         440       FC Cartagena       0.89       1.53         441       FC Vaduz       0.96       1.63         442       Sporting Gijón       0.85       1.48         443       KV Kortrijk       1.08       1.8         444       Inter Miami CF       1.05       <	425	1. FC Kaiserslautern	1.02	1.65
427         Blackpool         1.06         1.7           428         Plymouth Argyle         1.02         1.66           429         Racing Santander         0.85         1.44           430         Dijon FCO         0.85         1.44           431         Central Cã³rdoba Santiago del Estero         0.87         1.47           432         Barracas Central         0.87         1.48           433         Zalgiris Vilnius         1.1         1.79           434         St Mirren         0.95         1.58           435         Central Coast Mariners         1.27         2.03           436         Union Santa Fe         0.85         1.46           437         Peterborough United         1.01         1.68           438         IFK Norrkoping         1.08         1.78           439         Derby County         0.94         1.6           440         FC Cartagena         0.89         1.53           441         FC Vaduz         0.96         1.63           442         Sporting Gijã³n         0.85         1.48           443         KV Kortrijk         1.08         1.8           444         Inter Miami CF		MÃjlaga	0.79	
428       Plymouth Argyle       1.02       1.66         429       Racing Santander       0.85       1.44         430       Dijon FCO       0.85       1.44         431       Central Córdoba Santiago del Estero       0.87       1.47         432       Barracas Central       0.87       1.48         433       Zalgiris Vilnius       1.1       1.79         434       St Mirren       0.95       1.58         435       Central Coast Mariners       1.27       2.03         436       Union Santa Fe       0.85       1.46         437       Peterborough United       1.01       1.68         438       IFK Norrkoping       1.08       1.78         439       Derby County       0.94       1.6         440       FC Cartagena       0.89       1.53         441       FC Vaduz       0.96       1.63         442       Sporting Gijón       0.85       1.48         443       KV Kortrijk       1.08       1.8         444       Inter Miami CF       1.05       1.77         445       Kalmar FF       0.96       1.64         446       Reading       0.9 <t< th=""><th></th><th></th><th></th><th></th></t<>				
429       Racing Santander       0.85       1.44         430       Dijon FCO       0.85       1.44         431       Central Córdoba Santiago del Estero       0.87       1.47         432       Barracas Central       0.87       1.48         433       Zalgiris Vilnius       1.1       1.79         434       St Mirren       0.95       1.58         435       Central Coast Mariners       1.27       2.03         436       Union Santa Fe       0.85       1.46         437       Peterborough United       1.01       1.68         438       IFK Norrkoping       1.08       1.78         439       Derby County       0.94       1.6         440       FC Cartagena       0.89       1.53         441       FC Vaduz       0.96       1.63         442       Sporting Gijón       0.85       1.48         443       KV Kortrijk       1.08       1.8         444       Inter Miami CF       1.05       1.77         445       Kalmar FF       0.96       1.64         446       Reading       0.9       1.58         447       US Quevilly       0.96       1.		•		
430         Dijon FCO         0.85         1.44           431         Central Córdoba Santiago del Estero         0.87         1.47           432         Barracas Central         0.87         1.48           433         Zalgiris Vilnius         1.1         1.79           434         St Mirren         0.95         1.58           435         Central Coast Mariners         1.27         2.03           436         Union Santa Fe         0.85         1.46           437         Peterborough United         1.01         1.68           438         IFK Norrkoping         1.08         1.78           439         Derby County         0.94         1.6           440         FC Cartagena         0.89         1.53           441         FC Vaduz         0.96         1.63           442         Sporting Gijón         0.85         1.48           443         KV Kortrijk         1.08         1.8           444         Inter Miami CF         1.05         1.77           445         Kalmar FF         0.96         1.64           446         Reading         0.9         1.58           447         US Quevilly				
431         Central Córdoba Santiago del Estero         0.87         1.47 del Estero           432         Barracas Central         0.87         1.48 del Estero           433         Zalgiris Vilnius         1.1         1.79 del Estero           434         St Mirren         0.95         1.58 del Estero           435         Central Coast Mariners         1.27 del Estero         2.03 del Estero           436         Union Santa Fe         0.85 del Estero         1.46 del Estero           437         Peterborough United         1.01 del Estero         1.68 del Estero           438         IFK Norrkoping         1.08 del 1.78 del 1.79 del 1.63 del 1.78 del 1.79 del 1.63 del 1.79 del 1.64 del 1.79 del 1.64 del 1.79 de				
del Estero         432       Barracas Central       0.87       1.48         433       Zalgiris Vilnius       1.1       1.79         434       St Mirren       0.95       1.58         435       Central Coast Mariners       1.27       2.03         436       Union Santa Fe       0.85       1.46         437       Peterborough United       1.01       1.68         438       IFK Norrkoping       1.08       1.78         439       Derby County       0.94       1.6         440       FC Cartagena       0.89       1.53         441       FC Vaduz       0.96       1.63         442       Sporting Gijón       0.85       1.48         443       KV Kortrijk       1.08       1.8         444       Inter Miami CF       1.05       1.77         445       Kalmar FF       0.96       1.64         446       Reading       0.9       1.58         447       US Quevilly       0.96       1.66         448       Ascoli       0.84       1.5         449       SD Huesca       0.73       1.36         450       Odd BK       0.91 <t< th=""><th></th><th>-</th><th></th><th></th></t<>		-		
432       Barracas Central       0.87       1.48         433       Zalgiris Vilnius       1.1       1.79         434       St Mirren       0.95       1.58         435       Central Coast Mariners       1.27       2.03         436       Union Santa Fe       0.85       1.46         437       Peterborough United       1.01       1.68         438       IFK Norrkoping       1.08       1.78         439       Derby County       0.94       1.6         440       FC Cartagena       0.89       1.53         441       FC Vaduz       0.96       1.63         442       Sporting Gijón       0.85       1.48         443       KV Kortrijk       1.08       1.8         444       Inter Miami CF       1.05       1.77         445       Kalmar FF       0.96       1.64         446       Reading       0.9       1.58         447       US Quevilly       0.96       1.66         448       Ascoli       0.84       1.5         449       SD Huesca       0.73       1.36         450       Odd BK       0.91       1.62         451<	431	_	0.07	1.77
433       Zalgiris Vilnius       1.1       1.79         434       St Mirren       0.95       1.58         435       Central Coast Mariners       1.27       2.03         436       Union Santa Fe       0.85       1.46         437       Peterborough United       1.01       1.68         438       IFK Norrkoping       1.08       1.78         439       Derby County       0.94       1.6         440       FC Cartagena       0.89       1.53         441       FC Vaduz       0.96       1.63         442       Sporting Gijón       0.85       1.48         443       KV Kortrijk       1.08       1.8         444       Inter Miami CF       1.05       1.77         445       Kalmar FF       0.96       1.64         446       Reading       0.9       1.58         447       US Quevilly       0.96       1.66         448       Ascoli       0.84       1.5         449       SD Huesca       0.73       1.36         450       Odd BK       0.91       1.62         451       Kilmarnock       0.91       1.63         452	432	0.0. 2000.0	0.87	1 48
434       St Mirren       0.95       1.58         435       Central Coast Mariners       1.27       2.03         436       Union Santa Fe       0.85       1.46         437       Peterborough United       1.01       1.68         438       IFK Norrkoping       1.08       1.78         439       Derby County       0.94       1.6         440       FC Cartagena       0.89       1.53         441       FC Vaduz       0.96       1.63         442       Sporting Gijón       0.85       1.48         443       KV Kortrijk       1.08       1.8         444       Inter Miami CF       1.05       1.77         445       Kalmar FF       0.96       1.64         446       Reading       0.9       1.58         447       US Quevilly       0.96       1.66         448       Ascoli       0.84       1.5         449       SD Huesca       0.73       1.36         450       Odd BK       0.91       1.62         451       Kilmarnock       0.91       1.63         452       St Johnstone       0.88       1.58         453				
435       Central Coast Mariners       1.27       2.03         436       Union Santa Fe       0.85       1.46         437       Peterborough United       1.01       1.68         438       IFK Norrkoping       1.08       1.78         439       Derby County       0.94       1.6         440       FC Cartagena       0.89       1.53         441       FC Vaduz       0.96       1.63         442       Sporting Gijón       0.85       1.48         443       KV Kortrijk       1.08       1.8         444       Inter Miami CF       1.05       1.77         445       Kalmar FF       0.96       1.64         446       Reading       0.9       1.58         447       US Quevilly       0.96       1.66         448       Ascoli       0.84       1.5         449       SD Huesca       0.73       1.36         450       Odd BK       0.91       1.62         451       Kilmarnock       0.91       1.63         452       St Johnstone       0.88       1.58         453       OFI Crete       0.9       1.62         454				
436       Union Santa Fe       0.85       1.46         437       Peterborough United       1.01       1.68         438       IFK Norrkoping       1.08       1.78         439       Derby County       0.94       1.6         440       FC Cartagena       0.89       1.53         441       FC Vaduz       0.96       1.63         442       Sporting Gijón       0.85       1.48         443       KV Kortrijk       1.08       1.8         444       Inter Miami CF       1.05       1.77         445       Kalmar FF       0.96       1.64         446       Reading       0.9       1.58         447       US Quevilly       0.96       1.66         448       Ascoli       0.84       1.5         449       SD Huesca       0.73       1.36         450       Odd BK       0.91       1.62         451       Kilmarnock       0.91       1.63         452       St Johnstone       0.88       1.58         453       OFI Crete       0.9       1.62         454       Mirandes       0.86       1.56         455       Valencien				
437         Peterborough United         1.01         1.68           438         IFK Norrkoping         1.08         1.78           439         Derby County         0.94         1.6           440         FC Cartagena         0.89         1.53           441         FC Vaduz         0.96         1.63           442         Sporting Gijón         0.85         1.48           443         KV Kortrijk         1.08         1.8           444         Inter Miami CF         1.05         1.77           445         Kalmar FF         0.96         1.64           446         Reading         0.9         1.58           447         US Quevilly         0.96         1.66           448         Ascoli         0.84         1.5           449         SD Huesca         0.73         1.36           450         Odd BK         0.91         1.62           451         Kilmarnock         0.91         1.63           452         St Johnstone         0.88         1.58           453         OFI Crete         0.9         1.62           454         Mirandes         0.86         1.56				
438       IFK Norrkoping       1.08       1.78         439       Derby County       0.94       1.6         440       FC Cartagena       0.89       1.53         441       FC Vaduz       0.96       1.63         442       Sporting Gijón       0.85       1.48         443       KV Kortrijk       1.08       1.8         444       Inter Miami CF       1.05       1.77         445       Kalmar FF       0.96       1.64         446       Reading       0.9       1.58         447       US Quevilly       0.96       1.66         448       Ascoli       0.84       1.5         449       SD Huesca       0.73       1.36         450       Odd BK       0.91       1.62         451       Kilmarnock       0.91       1.63         452       St Johnstone       0.88       1.58         453       OFI Crete       0.9       1.62         454       Mirandes       0.86       1.56         455       Valenciennes       0.9       1.62         456       Arminia Bielefeld       1.14       1.96         457       1. FC Magdebur				
439         Derby County         0.94         1.6           440         FC Cartagena         0.89         1.53           441         FC Vaduz         0.96         1.63           442         Sporting Gijón         0.85         1.48           443         KV Kortrijk         1.08         1.8           444         Inter Miami CF         1.05         1.77           445         Kalmar FF         0.96         1.64           446         Reading         0.9         1.58           447         US Quevilly         0.96         1.66           448         Ascoli         0.84         1.5           449         SD Huesca         0.73         1.36           450         Odd BK         0.91         1.62           451         Kilmarnock         0.91         1.63           452         St Johnstone         0.88         1.58           453         OFI Crete         0.9         1.62           454         Mirandes         0.86         1.56           455         Valenciennes         0.9         1.62           456         Arminia Bielefeld         1.14         1.96           457 </th <th></th> <th></th> <th></th> <th></th>				
440       FC Cartagena       0.89       1.53         441       FC Vaduz       0.96       1.63         442       Sporting Gijón       0.85       1.48         443       KV Kortrijk       1.08       1.8         444       Inter Miami CF       1.05       1.77         445       Kalmar FF       0.96       1.64         446       Reading       0.9       1.58         447       US Quevilly       0.96       1.66         448       Ascoli       0.84       1.5         449       SD Huesca       0.73       1.36         450       Odd BK       0.91       1.62         451       Kilmarnock       0.91       1.63         452       St Johnstone       0.88       1.58         453       OFI Crete       0.9       1.62         454       Mirandes       0.86       1.56         455       Valenciennes       0.9       1.62         456       Arminia Bielefeld       1.14       1.96         457       1. FC Magdeburg       1.08       1.88         458       Modena       0.92       1.67         459       Reggina				
441       FC Vaduz       0.96       1.63         442       Sporting Gijón       0.85       1.48         443       KV Kortrijk       1.08       1.8         444       Inter Miami CF       1.05       1.77         445       Kalmar FF       0.96       1.64         446       Reading       0.9       1.58         447       US Quevilly       0.96       1.66         448       Ascoli       0.84       1.5         449       SD Huesca       0.73       1.36         450       Odd BK       0.91       1.62         451       Kilmarnock       0.91       1.63         452       St Johnstone       0.88       1.58         453       OFI Crete       0.9       1.62         454       Mirandes       0.86       1.56         455       Valenciennes       0.9       1.62         456       Arminia Bielefeld       1.14       1.96         457       1. FC Magdeburg       1.08       1.88         458       Modena       0.92       1.67         459       Reggina       0.84       1.56         460       Rodez       0.				
442       Sporting Gijón       0.85       1.48         443       KV Kortrijk       1.08       1.8         444       Inter Miami CF       1.05       1.77         445       Kalmar FF       0.96       1.64         446       Reading       0.9       1.58         447       US Quevilly       0.96       1.66         448       Ascoli       0.84       1.5         449       SD Huesca       0.73       1.36         450       Odd BK       0.91       1.62         451       Kilmarnock       0.91       1.63         452       St Johnstone       0.88       1.58         453       OFI Crete       0.9       1.62         454       Mirandes       0.86       1.56         455       Valenciennes       0.9       1.62         456       Arminia Bielefeld       1.14       1.96         457       1. FC Magdeburg       1.08       1.88         458       Modena       0.92       1.67         459       Reggina       0.84       1.56         450       Rodez       0.75       1.44         461       HJK Helsinki <t< th=""><th></th><th></th><th></th><th></th></t<>				
443       KV Kortrijk       1.08       1.8         444       Inter Miami CF       1.05       1.77         445       Kalmar FF       0.96       1.64         446       Reading       0.9       1.58         447       US Quevilly       0.96       1.66         448       Ascoli       0.84       1.5         449       SD Huesca       0.73       1.36         450       Odd BK       0.91       1.62         451       Kilmarnock       0.91       1.63         452       St Johnstone       0.88       1.58         453       OFI Crete       0.9       1.62         454       Mirandes       0.86       1.56         455       Valenciennes       0.9       1.62         456       Arminia Bielefeld       1.14       1.96         457       1. FC Magdeburg       1.08       1.88         458       Modena       0.92       1.67         459       Reggina       0.84       1.56         460       Rodez       0.75       1.44         461       HJK Helsinki       0.94       1.71				
444       Inter Miami CF       1.05       1.77         445       Kalmar FF       0.96       1.64         446       Reading       0.9       1.58         447       US Quevilly       0.96       1.66         448       Ascoli       0.84       1.5         449       SD Huesca       0.73       1.36         450       Odd BK       0.91       1.62         451       Kilmarnock       0.91       1.63         452       St Johnstone       0.88       1.58         453       OFI Crete       0.9       1.62         454       Mirandes       0.86       1.56         455       Valenciennes       0.9       1.62         456       Arminia Bielefeld       1.14       1.96         457       1. FC Magdeburg       1.08       1.88         458       Modena       0.92       1.67         459       Reggina       0.84       1.56         450       Rodez       0.75       1.44         461       HJK Helsinki       0.94       1.71				
445       Kalmar FF       0.96       1.64         446       Reading       0.9       1.58         447       US Quevilly       0.96       1.66         448       Ascoli       0.84       1.5         449       SD Huesca       0.73       1.36         450       Odd BK       0.91       1.62         451       Kilmarnock       0.91       1.63         452       St Johnstone       0.88       1.58         453       OFI Crete       0.9       1.62         454       Mirandes       0.86       1.56         455       Valenciennes       0.9       1.62         456       Arminia Bielefeld       1.14       1.96         457       1. FC Magdeburg       1.08       1.88         458       Modena       0.92       1.67         459       Reggina       0.84       1.56         460       Rodez       0.75       1.44         461       HJK Helsinki       0.94       1.71		•		
446       Reading       0.9       1.58         447       US Quevilly       0.96       1.66         448       Ascoli       0.84       1.5         449       SD Huesca       0.73       1.36         450       Odd BK       0.91       1.62         451       Kilmarnock       0.91       1.63         452       St Johnstone       0.88       1.58         453       OFI Crete       0.9       1.62         454       Mirandes       0.86       1.56         455       Valenciennes       0.9       1.62         456       Arminia Bielefeld       1.14       1.96         457       1. FC Magdeburg       1.08       1.88         458       Modena       0.92       1.67         459       Reggina       0.84       1.56         460       Rodez       0.75       1.44         461       HJK Helsinki       0.94       1.71				
447       US Quevilly       0.96       1.66         448       Ascoli       0.84       1.5         449       SD Huesca       0.73       1.36         450       Odd BK       0.91       1.62         451       Kilmarnock       0.91       1.63         452       St Johnstone       0.88       1.58         453       OFI Crete       0.9       1.62         454       Mirandes       0.86       1.56         455       Valenciennes       0.9       1.62         456       Arminia Bielefeld       1.14       1.96         457       1. FC Magdeburg       1.08       1.88         458       Modena       0.92       1.67         459       Reggina       0.84       1.56         460       Rodez       0.75       1.44         461       HJK Helsinki       0.94       1.71				
448       Ascoli       0.84       1.5         449       SD Huesca       0.73       1.36         450       Odd BK       0.91       1.62         451       Kilmarnock       0.91       1.63         452       St Johnstone       0.88       1.58         453       OFI Crete       0.9       1.62         454       Mirandes       0.86       1.56         455       Valenciennes       0.9       1.62         456       Arminia Bielefeld       1.14       1.96         457       1. FC Magdeburg       1.08       1.88         458       Modena       0.92       1.67         459       Reggina       0.84       1.56         460       Rodez       0.75       1.44         461       HJK Helsinki       0.94       1.71				
449       SD Huesca       0.73       1.36         450       Odd BK       0.91       1.62         451       Kilmarnock       0.91       1.63         452       St Johnstone       0.88       1.58         453       OFI Crete       0.9       1.62         454       Mirandes       0.86       1.56         455       Valenciennes       0.9       1.62         456       Arminia Bielefeld       1.14       1.96         457       1. FC Magdeburg       1.08       1.88         458       Modena       0.92       1.67         459       Reggina       0.84       1.56         460       Rodez       0.75       1.44         461       HJK Helsinki       0.94       1.71				
450       Odd BK       0.91       1.62         451       Kilmarnock       0.91       1.63         452       St Johnstone       0.88       1.58         453       OFI Crete       0.9       1.62         454       Mirandes       0.86       1.56         455       Valenciennes       0.9       1.62         456       Arminia Bielefeld       1.14       1.96         457       1. FC Magdeburg       1.08       1.88         458       Modena       0.92       1.67         459       Reggina       0.84       1.56         460       Rodez       0.75       1.44         461       HJK Helsinki       0.94       1.71				
451       Kilmarnock       0.91       1.63         452       St Johnstone       0.88       1.58         453       OFI Crete       0.9       1.62         454       Mirandes       0.86       1.56         455       Valenciennes       0.9       1.62         456       Arminia Bielefeld       1.14       1.96         457       1. FC Magdeburg       1.08       1.88         458       Modena       0.92       1.67         459       Reggina       0.84       1.56         460       Rodez       0.75       1.44         461       HJK Helsinki       0.94       1.71				
452       St Johnstone       0.88       1.58         453       OFI Crete       0.9       1.62         454       Mirandes       0.86       1.56         455       Valenciennes       0.9       1.62         456       Arminia Bielefeld       1.14       1.96         457       1. FC Magdeburg       1.08       1.88         458       Modena       0.92       1.67         459       Reggina       0.84       1.56         460       Rodez       0.75       1.44         461       HJK Helsinki       0.94       1.71				
453       OFI Crete       0.9       1.62         454       Mirandes       0.86       1.56         455       Valenciennes       0.9       1.62         456       Arminia Bielefeld       1.14       1.96         457       1. FC Magdeburg       1.08       1.88         458       Modena       0.92       1.67         459       Reggina       0.84       1.56         460       Rodez       0.75       1.44         461       HJK Helsinki       0.94       1.71				
454       Mirandes       0.86       1.56         455       Valenciennes       0.9       1.62         456       Arminia Bielefeld       1.14       1.96         457       1. FC Magdeburg       1.08       1.88         458       Modena       0.92       1.67         459       Reggina       0.84       1.56         460       Rodez       0.75       1.44         461       HJK Helsinki       0.94       1.71				
455     Valenciennes     0.9     1.62       456     Arminia Bielefeld     1.14     1.96       457     1. FC Magdeburg     1.08     1.88       458     Modena     0.92     1.67       459     Reggina     0.84     1.56       460     Rodez     0.75     1.44       461     HJK Helsinki     0.94     1.71				
456       Arminia Bielefeld       1.14       1.96         457       1. FC Magdeburg       1.08       1.88         458       Modena       0.92       1.67         459       Reggina       0.84       1.56         460       Rodez       0.75       1.44         461       HJK Helsinki       0.94       1.71				
457       1. FC Magdeburg       1.08       1.88         458       Modena       0.92       1.67         459       Reggina       0.84       1.56         460       Rodez       0.75       1.44         461       HJK Helsinki       0.94       1.71				
458       Modena       0.92       1.67         459       Reggina       0.84       1.56         460       Rodez       0.75       1.44         461       HJK Helsinki       0.94       1.71	456			
459       Reggina       0.84       1.56         460       Rodez       0.75       1.44         461       HJK Helsinki       0.94       1.71	457	1. FC Magdeburg	1.08	1.88
460       Rodez       0.75       1.44         461       HJK Helsinki       0.94       1.71	458		0.92	1.67
<b>461</b> HJK Helsinki 0.94 1.71	459	Reggina	0.84	1.56
	460	Rodez	0.75	1.44
	461	HJK Helsinki	0.94	1.71
.GE GIGIODIC   U.U1   1.23	462	Grenoble	0.61	1.23

463	Lyngby	0.86	1.61
464	Guangzhou Evergrande	1.08	1.93
465	Portsmouth	0.82	1.57
466	SV Zulte Waregem	1.35	2.32
467	Pau	0.92	1.75
468	Cittadella	0.7	1.42
469	Avispa Fukuoka	0.78	1.56
470	Hannover 96	1.07	1.98
471	Kashiwa Reysol	0.91	1.75
472	Ross County	0.92	1.76
473	Amiens	0.83	1.63
474	Orlando Pirates	0.75	1.53
475	Spal	0.83	1.65
476	SD Ponferradina	0.77	1.55
477	Perugia	0.84	1.67
478	Nimes	1.01	1.91
479	Atromitos	0.71	1.48
480	Arsenal Sarandi	0.75	1.54
481	Stromsgodset	0.99	1.89
482	San Antonio FC	0.88	1.74
483	Kyoto Purple Sanga	0.83	1.68
484	Burgos	0.69	1.47
485	AIK	0.84	1.7
486	Gamba Osaka	0.92	1.82
487	Stabaek	0.94	1.85
488	Livingston	0.83	1.69
489	Cashpoint SC Rheindorf	0.82	1.68
	Altach		
490	Sydney FC	1.05	2.03
491	Ternana	0.85	1.74
492	Charlton Athletic	0.98	1.94
493	SV Ried	0.87	1.8
494	Western Sydney FC	0.99	1.97
495	Shonan Bellmare	0.83	1.74
496	Laval	0.83	1.75
497	Benevento	0.77	1.67
498	Beijing Guoan	0.98	1.99
499	1. FC Nürnberg	0.8	1.72
500	Louisville City FC	0.83	1.77
501	Dundee Utd	0.87	1.85
502	Wycombe Wanderers	0.78	1.72
503	Haugesund	0.87	1.86
504	Annecy	0.79	1.75
505	Shanghai SIPG	0.9	1.92
506	Jahn Regensburg	0.9	1.92
507	San Diego Loyal SC	0.95	2
508	Tampa Bay Rowdies	0.88	1.9
509	Pyunik Yerevan	0.87	1.9
510	IFK Goteborg	0.8	1.8
511	UD Ibiza	0.71	1.66
512	Fleetwood Town	0.76	1.75
513	Hansa Rostock	0.77	1.77
514	Sacramento Republic FC	0.79	1.81
515	FC Khimki	0.82	1.87
516	KV Oostende	1.02	2.18
517	Winterthur	0.81	1.86

518	Brescia	0.74	1.74
519	Giannina	0.72	1.72
520	AC Horsens	0.88	1.98
521	Arizona United	0.87	1.98
522	Memphis 901 FC	0.95	2.1
523	Lincoln City	0.61	1.57
524	Eintracht Braunschweig	0.88	2.02
525	Adelaide United	1.06	2.3
526	Albirex Niigata	0.82	1.93
527	Eupen	0.98	2.19
528	Exeter City	0.85	1.98
529	Asteras Tripolis	0.5	1.42
530	Sandefjord	0.91	2.11
531	Melbourne Victory	0.77	1.9
532	FC Sion	0.96	2.19
533	IK Sirius	0.79	1.94
534	Colorado Springs	0.77	1.92
	Switchbacks FC		
535	Torpedo Moskow	0.72	1.86
536	Lugo	0.58	1.64
537	Cosenza	0.54	1.57
538	Shamrock Rovers	0.69	1.84
539	Mjallby	0.57	1.64
540	Oxford United	0.64	1.76
541	Black Aces	0.56	1.65
542	RFC Seraing	0.75	1.98
543	Oakland Roots	0.75	1.98
544	Brommapojkarna	0.7	1.91
545	Stellenbosch FC	0.64	1.83
546	Volos NFC	0.67	1.9
547	Burton Albion	0.74	2.01
548	Aalesund	0.71	1.98
549	El Paso Locomotive FC	0.72	2
550	Niort	0.71	1.98
551	Ionikos FC	0.58	1.77
552	Levadiakos	0.61	1.83
553	Shrewsbury Town	0.63	1.87
554	SuperSport United	0.45	1.55
555	SV Sandhausen	0.72	2.04
556	Shandong Luneng	0.82	2.22
557	Salford City	0.78	2.16
558	Jiangsu Suning FC	0.71	2.04
559	Cheltenham Town	0.67	1.99
560	Gazisehir Gaziantep	0.71	2.05
561	Halmstads BK	0.64	1.94
562	Mansfield Town	0.71	2.08
563	Milton Keynes Dons	0.58	1.86
564	Panetolikos	0.63	1.97
565	New Mexico United	0.67	2.04
566	Yokohama FC	0.65	2.04
567	Stockport County	0.49	1.72
568	Hamarkamaratene	0.49	2.08
569	IFK Värnamo	0.58	1.91
570	Pittsburgh Riverhounds	0.58	1.82
571	Bristol Rovers	0.65	2.07
572	Western United	0.63	2.07
3/2	AA ESTELLI OLIITEA	0.77	2.5

574         Orange County SC         0.58         1.99           575         TS Galaxy         0.37         1.59           576         Kaizer Chiefs         0.46         1.76           577         Birimingham Legion FC         0.66         2.19           578         Brisbane Roar         0.6         2.07           579         Lamia         0.47         1.85           580         Newcastle Jets         0.68         2.28           581         Degerfors IF         0.68         2.25           582         Port Vale         0.61         2.16           583         AmaZulu         0.4         1.81           584         Bradford City         0.48         1.97           585         Swindon Town         0.56         2.17           586         Miami FC         0.53         2.11           587         Leyton Orient         0.39         1.86           588         Carlisle United         0.39         1.86           589         Morecambe         0.58         2.26           590         Morecambe         0.58         2.25           591         Newport County         0.49         2.11 <th></th> <th></th> <th></th> <th></th>				
575         TS Galaxy         0.37         1.59           576         Kaizer Chiefs         0.46         1.76           577         Birmingham Legion FC         0.66         2.19           578         Brisbane Roar         0.6         2.07           579         Lamia         0.47         1.85           580         Newcastle Jets         0.68         2.28           581         Degerfors IF         0.68         2.29           582         Port Vale         0.61         2.16           583         AmaZulu         0.4         1.81           584         Bradford City         0.48         1.97           585         Swindon Town         0.56         2.17           586         Miami FC         0.53         2.11           587         Leyton Orient         0.39         1.84           588         Carlisle United         0.39         1.86           589         Morecambe         0.58         2.26           590         Golden Arrows         0.43         1.97           591         Newport County         0.49         2.11           592         Hatayspor         0.58         2.29	573	Wellington Phoenix	0.79	2.36
576         Kaizer Chiefs         0.46         1.76           577         Birmingham Legion FC         0.66         2.19           578         Brisbane Roar         0.6         2.07           579         Lamia         0.47         1.85           580         Newcastle Jets         0.68         2.28           581         Degerfors IF         0.68         2.29           582         Port Vale         0.61         2.16           583         AmaZulu         0.4         1.81           584         Bradford City         0.48         1.97           585         Swindon Town         0.56         2.27           586         Miami FC         0.53         2.11           587         Leyton Orient         0.39         1.84           588         Carlisle United         0.39         1.86           589         Morecambe         0.58         2.26           590         Golden Arrows         0.43         1.97           591         Newport County         0.49         2.21           592         Hatayspor         0.58         2.29           593         Royal AM         0.46         2.06	574	Orange County SC	0.58	1.99
577         Birmingham Legion FC         0.66         2.19           578         Brisbane Roar         0.6         2.07           579         Lamia         0.47         1.85           580         Newcastle Jets         0.68         2.28           581         Degerfors IF         0.68         2.29           582         Port Vale         0.61         2.16           583         AmaZulu         0.4         1.81           584         Bradford City         0.48         1.97           585         Swindon Town         0.56         2.17           586         Miami FC         0.53         2.11           587         Leyton Orient         0.39         1.86           588         Carlisle United         0.39         1.86           589         Morecambe         0.58         2.26           590         Golden Arrows         0.43         1.97           591         Newport County         0.49         2.11           592         Hatayspor         0.58         2.29           593         Royal AM         0.46         2.06           594         Perth Glory         0.58         2.3 <t< th=""><th>575</th><th>TS Galaxy</th><th>0.37</th><th>1.59</th></t<>	575	TS Galaxy	0.37	1.59
578         Brisbane Roar         0.6         2.07           579         Lamia         0.47         1.85           580         Newcastle Jets         0.68         2.28           581         Degerfors IF         0.68         2.29           582         Port Vale         0.61         2.16           583         AmaZulu         0.4         1.81           584         Bradford City         0.48         1.97           585         Swindon Town         0.56         2.17           586         Miami FC         0.53         2.11           587         Leyton Orient         0.39         1.86           588         Carlisle United         0.39         1.86           589         Morecambe         0.58         2.26           590         Golden Arrows         0.43         1.97           591         Newport County         0.49         2.11           592         Hatayspor         0.58         2.29           593         Royal AM         0.46         2.06           594         Perth Glory         0.58         2.3           595         Sekhukhune United         0.24         1.61	576	Kaizer Chiefs	0.46	1.76
579         Lamia         0.47         1.85           580         Newcastle Jets         0.68         2.28           581         Degerfors IF         0.68         2.29           582         Port Vale         0.61         2.16           583         AmaZulu         0.4         1.81           584         Bradford City         0.48         1.97           585         Swindon Town         0.56         2.17           586         Miami FC         0.53         2.11           587         Leyton Orient         0.39         1.84           588         Carlisle United         0.39         1.86           589         Morecambe         0.58         2.26           590         Golden Arrows         0.43         1.97           591         Newport County         0.49         2.11           592         Hatayspor         0.58         2.29           593         Royal AM         0.46         2.06           594         Perth Glory         0.58         2.39           595         Sekhukhune United         0.24         1.61           596         Cambridge United         0.4         1.98      <	577	Birmingham Legion FC	0.66	2.19
580         Newcastle Jets         0.68         2.28           581         Degerfors IF         0.68         2.29           582         Port Vale         0.61         2.16           583         AmaZulu         0.4         1.81           584         Bradford City         0.48         1.97           585         Swindon Town         0.56         2.17           586         Miami FC         0.53         2.11           587         Leyton Orient         0.39         1.84           588         Carlisle United         0.39         1.86           589         Morecambe         0.58         2.26           590         Golden Arrows         0.43         1.97           591         Newport County         0.49         2.11           592         Hatayspor         0.58         2.29           593         Royal AM         0.46         2.06           594         Perth Glory         0.58         2.3           595         Sekhukhune United         0.24         1.61           596         Cambridge United         0.4         1.98           597         Stevenage         0.36         1.9	578	Brisbane Roar	0.6	2.07
581         Degerfors IF         0.68         2.29           582         Port Vale         0.61         2.16           583         AmaZulu         0.4         1.81           584         Bradford City         0.48         1.97           585         Swindon Town         0.56         2.17           586         Miami FC         0.53         2.11           587         Leyton Orient         0.39         1.84           588         Carlisle United         0.39         1.86           589         Morecambe         0.58         2.26           590         Golden Arrows         0.43         1.97           591         Newport County         0.49         2.11           592         Hatayspor         0.58         2.29           593         Royal AM         0.46         2.06           594         Perth Glory         0.58         2.3           595         Sekhukhune United         0.24         1.61           596         Cambridge United         0.4         1.98           597         Stevenage         0.36         1.9           598         Northampton Town         0.34         1.88	579	Lamia	0.47	1.85
582         Port Vale         0.61         2.16           583         AmaZulu         0.4         1.81           584         Bradford City         0.48         1.97           585         Swindon Town         0.56         2.17           586         Miami FC         0.53         2.11           587         Leyton Orient         0.39         1.86           588         Carlisle United         0.39         1.86           589         Morecambe         0.58         2.26           590         Golden Arrows         0.43         1.97           591         Newport County         0.49         2.11           592         Hatayspor         0.58         2.29           593         Royal AM         0.46         2.06           594         Perth Glory         0.58         2.3           595         Sekhukhune United         0.24         1.61           596         Cambridge United         0.4         1.98           597         Stevenage         0.36         1.9           598         Northampton Town         0.34         1.88           599         Hartford Athletic         0.56         2.36 </th <th>580</th> <th>Newcastle Jets</th> <th>0.68</th> <th>2.28</th>	580	Newcastle Jets	0.68	2.28
583         AmaZulu         0.4         1.81           584         Bradford City         0.48         1.97           585         Swindon Town         0.56         2.17           586         Miami FC         0.53         2.11           587         Leyton Orient         0.39         1.86           588         Carlisle United         0.39         1.86           589         Morecambe         0.58         2.26           590         Golden Arrows         0.43         1.97           591         Newport County         0.49         2.11           591         Newport County         0.49         2.21           591         Newport County         0.49         2.21           592         Hatayspor         0.58         2.29           593         Royal AM         0.46         2.06           594         Perth Glory         0.58         2.39           595         Sekhukhune United         0.24         1.61           596         Cambridge United         0.4         1.98           597         Stevenage         0.36         1.9           598         Northampton Town         0.34         1.88	581	Degerfors IF	0.68	2.29
584         Bradford City         0.48         1.97           585         Swindon Town         0.56         2.17           586         Miami FC         0.53         2.11           587         Leyton Orient         0.39         1.84           588         Carlisle United         0.39         1.86           589         Morecambe         0.58         2.26           590         Golden Arrows         0.43         1.97           591         Newport County         0.49         2.11           592         Hatayspor         0.58         2.29           593         Royal AM         0.46         2.06           594         Perth Glory         0.58         2.3           595         Sekhukhune United         0.24         1.61           596         Cambridge United         0.4         1.98           597         Stevenage         0.36         1.9           598         Northampton Town         0.34         1.88           599         Hartford Athletic         0.56         2.36           600         Monterey Bay         0.47         2.17           601         Indy Eleven         0.43         2.11 <th></th> <th>Port Vale</th> <th></th> <th>2.16</th>		Port Vale		2.16
585         Swindon Town         0.56         2.17           586         Miami FC         0.53         2.11           587         Leyton Orient         0.39         1.84           588         Carlisle United         0.39         1.86           589         Morecambe         0.58         2.26           590         Golden Arrows         0.43         1.97           591         Newport County         0.49         2.11           591         Newport County         0.49         2.11           591         Newport County         0.49         2.11           592         Hatayspor         0.58         2.29           593         Royal AM         0.46         2.06           594         Perth Glory         0.58         2.3           595         Sekhukhune United         0.24         1.61           596         Cambridge United         0.4         1.98           597         Stevenage         0.36         1.9           598         Northampton Town         0.34         1.88           599         Hartford Athletic         0.56         2.36           600         Monterey Bay         0.47         2.17				1.81
586         Miami FC         0.53         2.11           587         Leyton Orient         0.39         1.84           588         Carlisle United         0.39         1.86           589         Morecambe         0.58         2.26           590         Golden Arrows         0.43         1.97           591         Newport County         0.49         2.11           592         Hatayspor         0.58         2.29           593         Royal AM         0.46         2.06           594         Perth Glory         0.58         2.3           595         Sekhukhune United         0.24         1.61           596         Cambridge United         0.4         1.98           597         Stevenage         0.36         1.9           598         Northampton Town         0.34         1.88           599         Hartford Athletic         0.56         2.36           600         Monterey Bay         0.47         2.17           601         Indy Eleven         0.43         2.11           602         Tianjin Teda         0.5         2.26           603         Macarthur FC         0.63         2.55		,		1.97
587         Leyton Orient         0.39         1.84           588         Carlisle United         0.39         1.86           589         Morecambe         0.58         2.26           590         Golden Arrows         0.43         1.97           591         Newport County         0.49         2.11           592         Hatayspor         0.58         2.29           593         Royal AM         0.46         2.06           594         Perth Glory         0.58         2.3           595         Sekhukhune United         0.24         1.61           596         Cambridge United         0.4         1.98           597         Stevenage         0.36         1.9           598         Northampton Town         0.34         1.88           599         Hartford Athletic         0.56         2.36           600         Monterey Bay         0.47         2.17           601         Indy Eleven         0.43         2.11           602         Tianjin Teda         0.5         2.26           603         Macarthur FC         0.63         2.55           604         Varbergs BolS FC         0.49         2.				2.17
588         Carlisle United         0.39         1.86           589         Morecambe         0.58         2.26           590         Golden Arrows         0.43         1.97           591         Newport County         0.49         2.11           592         Hatayspor         0.58         2.29           593         Royal AM         0.46         2.06           594         Perth Glory         0.58         2.3           595         Sekhukhune United         0.24         1.61           596         Cambridge United         0.4         1.98           597         Stevenage         0.36         1.9           598         Northampton Town         0.34         1.88           599         Hartford Athletic         0.56         2.36           600         Monterey Bay         0.47         2.17           601         Indy Eleven         0.43         2.11           602         Tianjin Teda         0.5         2.26           603         Macarthur FC         0.63         2.55           604         Varbergs BolS FC         0.49         2.27           605         Charleston Battery         0.45         <				
589         Morecambe         0.58         2.26           590         Golden Arrows         0.43         1.97           591         Newport County         0.49         2.11           592         Hatayspor         0.58         2.29           593         Royal AM         0.46         2.06           594         Perth Glory         0.58         2.3           595         Sekhukhune United         0.24         1.61           596         Cambridge United         0.4         1.98           597         Stevenage         0.36         1.9           598         Northampton Town         0.34         1.88           599         Hartford Athletic         0.56         2.36           600         Monterey Bay         0.47         2.17           601         Indy Eleven         0.43         2.11           602         Tianjin Teda         0.5         2.26           603         Macarthur FC         0.63         2.55           604         Varbergs BolS FC         0.49         2.27           605         Charleston Battery         0.45         2.22           606         Shanghai Greenland         0.56		•		
590         Golden Arrows         0.43         1.97           591         Newport County         0.49         2.11           592         Hatayspor         0.58         2.29           593         Royal AM         0.46         2.06           594         Perth Glory         0.58         2.3           595         Sekhukhune United         0.24         1.61           596         Cambridge United         0.4         1.98           597         Stevenage         0.36         1.9           598         Northampton Town         0.34         1.88           599         Hartford Athletic         0.56         2.36           600         Monterey Bay         0.47         2.17           601         Indy Eleven         0.43         2.11           602         Tianjin Teda         0.5         2.26           603         Macarthur FC         0.63         2.55           604         Varbergs BolS FC         0.49         2.27           605         Charleston Battery         0.45         2.22           606         Shanghai Greenland         0.56         2.43           607         Harrogate Town         0.54				
591         Newport County         0.49         2.11           592         Hatayspor         0.58         2.29           593         Royal AM         0.46         2.06           594         Perth Glory         0.58         2.3           595         Sekhukhune United         0.24         1.61           596         Cambridge United         0.4         1.98           597         Stevenage         0.36         1.9           598         Northampton Town         0.34         1.88           599         Hartford Athletic         0.56         2.36           600         Monterey Bay         0.47         2.17           601         Indy Eleven         0.43         2.11           602         Tianjin Teda         0.5         2.26           603         Macarthur FC         0.63         2.55           604         Varbergs BolS FC         0.49         2.27           605         Charleston Battery         0.45         2.22           606         Shanghai Greenland         0.56         2.47           607         Harrogate Town         0.54         2.43           608         Moroka Swallows         0.24				
592         Hatayspor         0.58         2.29           593         Royal AM         0.46         2.06           594         Perth Glory         0.58         2.3           595         Sekhukhune United         0.24         1.61           596         Cambridge United         0.4         1.98           597         Stevenage         0.36         1.9           598         Northampton Town         0.34         1.88           599         Hartford Athletic         0.56         2.36           600         Monterey Bay         0.47         2.17           601         Indy Eleven         0.43         2.11           602         Tianjin Teda         0.5         2.26           603         Macarthur FC         0.63         2.55           604         Varbergs BolS FC         0.49         2.27           605         Charleston Battery         0.45         2.22           606         Shanghai Greenland         0.56         2.47           607         Harrogate Town         0.54         2.43           608         Moroka Swallows         0.24         1.77           609         Tulsa Roughnecks         0.49 <th></th> <th></th> <th></th> <th></th>				
593         Royal AM         0.46         2.06           594         Perth Glory         0.58         2.3           595         Sekhukhune United         0.24         1.61           596         Cambridge United         0.4         1.98           597         Stevenage         0.36         1.9           598         Northampton Town         0.34         1.88           599         Hartford Athletic         0.56         2.36           600         Monterey Bay         0.47         2.17           601         Indy Eleven         0.43         2.11           602         Tianjin Teda         0.5         2.26           603         Macarthur FC         0.63         2.55           604         Varbergs BolS FC         0.49         2.27           605         Charleston Battery         0.45         2.22           606         Shanghai Greenland         0.56         2.47           607         Harrogate Town         0.54         2.43           608         Moroka Swallows         0.24         1.77           609         Tulsa Roughnecks         0.49         2.37           610         Rio Grande Valley FC				
594         Perth Glory         0.58         2.3           595         Sekhukhune United         0.24         1.61           596         Cambridge United         0.4         1.98           597         Stevenage         0.36         1.9           598         Northampton Town         0.34         1.88           599         Hartford Athletic         0.56         2.36           600         Monterey Bay         0.47         2.17           601         Indy Eleven         0.43         2.11           602         Tianjin Teda         0.5         2.26           603         Macarthur FC         0.63         2.55           604         Varbergs BolS FC         0.49         2.27           605         Charleston Battery         0.45         2.22           606         Shanghai Greenland         0.56         2.47           607         Harrogate Town         0.54         2.43           608         Moroka Swallows         0.24         1.77           609         Tulsa Roughnecks         0.49         2.37           610         Rio Grande Valley FC         0.41         2.21           Toros         0.5 <td< th=""><th></th><th>, ·</th><th></th><th></th></td<>		, ·		
595         Sekhukhune United         0.24         1.61           596         Cambridge United         0.4         1.98           597         Stevenage         0.36         1.9           598         Northampton Town         0.34         1.88           599         Hartford Athletic         0.56         2.36           600         Monterey Bay         0.47         2.17           601         Indy Eleven         0.43         2.11           602         Tianjin Teda         0.5         2.26           603         Macarthur FC         0.63         2.55           604         Varbergs BolS FC         0.49         2.27           605         Charleston Battery         0.45         2.22           606         Shanghai Greenland         0.56         2.47           607         Harrogate Town         0.54         2.43           608         Moroka Swallows         0.24         1.77           609         Tulsa Roughnecks         0.49         2.37           610         Rio Grande Valley FC         0.41         2.21           Toros         0.5         2.43           612         Colchester United         0.27				
596         Cambridge United         0.4         1.98           597         Stevenage         0.36         1.9           598         Northampton Town         0.34         1.88           599         Hartford Athletic         0.56         2.36           600         Monterey Bay         0.47         2.17           601         Indy Eleven         0.43         2.11           602         Tianjin Teda         0.5         2.26           603         Macarthur FC         0.63         2.55           604         Varbergs BolS FC         0.49         2.27           605         Charleston Battery         0.45         2.22           606         Shanghai Greenland         0.56         2.47           607         Harrogate Town         0.54         2.43           608         Moroka Swallows         0.24         1.77           609         Tulsa Roughnecks         0.49         2.37           610         Rio Grande Valley FC         0.41         2.21           Toros         0.5         2.43           611         Hebei China Fortune FC         0.5         2.43           612         Colchester United         0.27		,		
597         Stevenage         0.36         1.9           598         Northampton Town         0.34         1.88           599         Hartford Athletic         0.56         2.36           600         Monterey Bay         0.47         2.17           601         Indy Eleven         0.43         2.11           602         Tianjin Teda         0.5         2.26           603         Macarthur FC         0.63         2.55           604         Varbergs BolS FC         0.49         2.27           605         Charleston Battery         0.45         2.22           606         Shanghai Greenland         0.56         2.47           607         Harrogate Town         0.54         2.43           608         Moroka Swallows         0.24         1.77           609         Tulsa Roughnecks         0.49         2.37           610         Rio Grande Valley FC         0.41         2.21           Toros         611         Hebei China Fortune FC         0.5         2.43           612         Colchester United         0.27         1.91           613         Henan Jianye         0.46         2.36           614				
598         Northampton Town         0.34         1.88           599         Hartford Athletic         0.56         2.36           600         Monterey Bay         0.47         2.17           601         Indy Eleven         0.43         2.11           602         Tianjin Teda         0.5         2.26           603         Macarthur FC         0.63         2.55           604         Varbergs BolS FC         0.49         2.27           605         Charleston Battery         0.45         2.22           606         Shanghai Greenland         0.56         2.47           607         Harrogate Town         0.54         2.43           608         Moroka Swallows         0.24         1.77           609         Tulsa Roughnecks         0.49         2.37           610         Rio Grande Valley FC         0.41         2.21           Toros         0.5         2.43           611         Hebei China Fortune FC         0.5         2.43           612         Colchester United         0.27         1.91           613         Henan Jianye         0.46         2.36           614         Las Vegas Lights FC         0.		Ü		
599         Hartford Athletic         0.56         2.36           600         Monterey Bay         0.47         2.17           601         Indy Eleven         0.43         2.11           602         Tianjin Teda         0.5         2.26           603         Macarthur FC         0.63         2.55           604         Varbergs BolS FC         0.49         2.27           605         Charleston Battery         0.45         2.22           606         Shanghai Greenland         0.56         2.47           607         Harrogate Town         0.54         2.43           608         Moroka Swallows         0.24         1.77           609         Tulsa Roughnecks         0.49         2.37           610         Rio Grande Valley FC         0.41         2.21           Toros         0.41         2.21           611         Hebei China Fortune FC         0.5         2.43           612         Colchester United         0.27         1.91           613         Henan Jianye         0.46         2.36           614         Las Vegas Lights FC         0.41         2.26           615         Gillingham         0.27 <th></th> <th></th> <th></th> <th></th>				
600         Monterey Bay         0.47         2.17           601         Indy Eleven         0.43         2.11           602         Tianjin Teda         0.5         2.26           603         Macarthur FC         0.63         2.55           604         Varbergs BolS FC         0.49         2.27           605         Charleston Battery         0.45         2.22           606         Shanghai Greenland         0.56         2.47           607         Harrogate Town         0.54         2.43           608         Moroka Swallows         0.24         1.77           609         Tulsa Roughnecks         0.49         2.37           610         Rio Grande Valley FC         0.41         2.21           Toros         0.41         2.21           611         Hebei China Fortune FC         0.5         2.43           612         Colchester United         0.27         1.91           613         Henan Jianye         0.46         2.36           614         Las Vegas Lights FC         0.41         2.26           615         Gillingham         0.27         1.94           616         Dalian Aerbin         0.51		•		
601         Indy Eleven         0.43         2.11           602         Tianjin Teda         0.5         2.26           603         Macarthur FC         0.63         2.55           604         Varbergs BolS FC         0.49         2.27           605         Charleston Battery         0.45         2.22           606         Shanghai Greenland         0.56         2.47           607         Harrogate Town         0.54         2.43           608         Moroka Swallows         0.24         1.77           609         Tulsa Roughnecks         0.49         2.37           610         Rio Grande Valley FC         0.41         2.21           Toros         0.41         2.21           611         Hebei China Fortune FC         0.5         2.43           612         Colchester United         0.27         1.91           613         Henan Jianye         0.46         2.36           614         Las Vegas Lights FC         0.41         2.26           615         Gillingham         0.27         1.94           616         Dalian Aerbin         0.51         2.51           617         Tshakhuma Tsha         0.25				
602         Tianjin Teda         0.5         2.26           603         Macarthur FC         0.63         2.55           604         Varbergs BolS FC         0.49         2.27           605         Charleston Battery         0.45         2.22           606         Shanghai Greenland         0.56         2.47           607         Harrogate Town         0.54         2.43           608         Moroka Swallows         0.24         1.77           609         Tulsa Roughnecks         0.49         2.37           610         Rio Grande Valley FC         0.41         2.21           Toros         0.41         2.21           611         Hebei China Fortune FC         0.5         2.43           612         Colchester United         0.27         1.91           613         Henan Jianye         0.46         2.36           614         Las Vegas Lights FC         0.41         2.26           615         Gillingham         0.27         1.94           616         Dalian Aerbin         0.51         2.51           617         Tshakhuma Tsha         0.25         1.91           Madzivhandila         0.66         2.86 </th <th></th> <th>· · ·</th> <th></th> <th></th>		· · ·		
603         Macarthur FC         0.63         2.55           604         Varbergs BolS FC         0.49         2.27           605         Charleston Battery         0.45         2.22           606         Shanghai Greenland         0.56         2.47           607         Harrogate Town         0.54         2.43           608         Moroka Swallows         0.24         1.77           609         Tulsa Roughnecks         0.49         2.37           610         Rio Grande Valley FC         0.41         2.21           Toros         0.41         2.21           611         Hebei China Fortune FC         0.5         2.43           612         Colchester United         0.27         1.91           613         Henan Jianye         0.46         2.36           614         Las Vegas Lights FC         0.41         2.26           615         Gillingham         0.27         1.94           616         Dalian Aerbin         0.51         2.51           617         Tshakhuma Tsha         0.25         1.91           Madzivhandila         6         2.86		,		
604         Varbergs BoIS FC         0.49         2.27           605         Charleston Battery         0.45         2.22           606         Shanghai Greenland         0.56         2.47           607         Harrogate Town         0.54         2.43           608         Moroka Swallows         0.24         1.77           609         Tulsa Roughnecks         0.49         2.37           610         Rio Grande Valley FC         0.41         2.21           Toros         0.41         2.21           611         Hebei China Fortune FC         0.5         2.43           612         Colchester United         0.27         1.91           613         Henan Jianye         0.46         2.36           614         Las Vegas Lights FC         0.41         2.26           615         Gillingham         0.27         1.94           616         Dalian Aerbin         0.51         2.51           617         Tshakhuma Tsha         0.25         1.91           Madzivhandila         0.66         2.86		•		
605         Charleston Battery         0.45         2.22           606         Shanghai Greenland         0.56         2.47           607         Harrogate Town         0.54         2.43           608         Moroka Swallows         0.24         1.77           609         Tulsa Roughnecks         0.49         2.37           610         Rio Grande Valley FC         0.41         2.21           Toros         0.5         2.43           611         Hebei China Fortune FC         0.5         2.43           612         Colchester United         0.27         1.91           613         Henan Jianye         0.46         2.36           614         Las Vegas Lights FC         0.41         2.26           615         Gillingham         0.27         1.94           616         Dalian Aerbin         0.51         2.51           617         Tshakhuma Tsha         0.25         1.91           Madzivhandila         0.66         2.86				
606         Shanghai Greenland         0.56         2.47           607         Harrogate Town         0.54         2.43           608         Moroka Swallows         0.24         1.77           609         Tulsa Roughnecks         0.49         2.37           610         Rio Grande Valley FC         0.41         2.21           Toros				
607         Harrogate Town         0.54         2.43           608         Moroka Swallows         0.24         1.77           609         Tulsa Roughnecks         0.49         2.37           610         Rio Grande Valley FC         0.41         2.21           Toros				
608         Moroka Swallows         0.24         1.77           609         Tulsa Roughnecks         0.49         2.37           610         Rio Grande Valley FC         0.41         2.21           Toros         0.5         2.43           611         Hebei China Fortune FC         0.5         2.43           612         Colchester United         0.27         1.91           613         Henan Jianye         0.46         2.36           614         Las Vegas Lights FC         0.41         2.26           615         Gillingham         0.27         1.94           616         Dalian Aerbin         0.51         2.51           617         Tshakhuma Tsha         0.25         1.91           Madzivhandila         Madzivhandila         0.66         2.86				
609         Tulsa Roughnecks         0.49         2.37           610         Rio Grande Valley FC         0.41         2.21           Toros         0.5         2.43           611         Hebei China Fortune FC         0.5         2.43           612         Colchester United         0.27         1.91           613         Henan Jianye         0.46         2.36           614         Las Vegas Lights FC         0.41         2.26           615         Gillingham         0.27         1.94           616         Dalian Aerbin         0.51         2.51           617         Tshakhuma Tsha         0.25         1.91           Madzivhandila         0.66         2.86				
610       Rio Grande Valley FC       0.41       2.21         Toros       0.5       2.43         611       Hebei China Fortune FC       0.5       2.43         612       Colchester United       0.27       1.91         613       Henan Jianye       0.46       2.36         614       Las Vegas Lights FC       0.41       2.26         615       Gillingham       0.27       1.94         616       Dalian Aerbin       0.51       2.51         617       Tshakhuma Tsha       0.25       1.91         Madzivhandila       0.66       2.86			-	2.37
Toros         611       Hebei China Fortune FC       0.5       2.43         612       Colchester United       0.27       1.91         613       Henan Jianye       0.46       2.36         614       Las Vegas Lights FC       0.41       2.26         615       Gillingham       0.27       1.94         616       Dalian Aerbin       0.51       2.51         617       Tshakhuma Tsha       0.25       1.91         Madzivhandila       0.66       2.86				2.21
611       Hebei China Fortune FC       0.5       2.43         612       Colchester United       0.27       1.91         613       Henan Jianye       0.46       2.36         614       Las Vegas Lights FC       0.41       2.26         615       Gillingham       0.27       1.94         616       Dalian Aerbin       0.51       2.51         617       Tshakhuma Tsha       0.25       1.91         Madzivhandila       0.66       2.86		· ·		
613       Henan Jianye       0.46       2.36         614       Las Vegas Lights FC       0.41       2.26         615       Gillingham       0.27       1.94         616       Dalian Aerbin       0.51       2.51         617       Tshakhuma Tsha       0.25       1.91         Madzivhandila       0.66       2.86         618       Guangzhou RF       0.66       2.86	611	Hebei China Fortune FC	0.5	2.43
614       Las Vegas Lights FC       0.41       2.26         615       Gillingham       0.27       1.94         616       Dalian Aerbin       0.51       2.51         617       Tshakhuma Tsha       0.25       1.91         Madzivhandila       0.66       2.86	612	Colchester United	0.27	1.91
615       Gillingham       0.27       1.94         616       Dalian Aerbin       0.51       2.51         617       Tshakhuma Tsha       0.25       1.91         Madzivhandila       0.66       2.86	613	Henan Jianye	0.46	2.36
616         Dalian Aerbin         0.51         2.51           617         Tshakhuma Tsha         0.25         1.91           Madzivhandila         0.66         2.86	614	Las Vegas Lights FC	0.41	2.26
617         Tshakhuma Tsha         0.25         1.91           Madzivhandila         0.66         2.86	615	Gillingham	0.27	1.94
Madzivhandila 618 Guangzhou RF 0.66 2.86	616	Dalian Aerbin	0.51	2.51
<b>618</b> Guangzhou RF 0.66 2.86	617		0.25	1.91
<b>619</b> Maritzburg Utd 0.26 1.98				2.86
		-		1.98
		· '		2.28
				2.32
				2.25
				2.08
				1.95
				2.4
<b>626</b> Grimsby Town 0.26 2.15	626	Grimsby Town	0.26	2.15

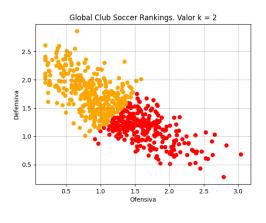
627	Chippa United	0.25	2.16
628	Tranmere Rovers	0.2	2.02
629	Loudoun United FC	0.36	2.47
630	Tianjin Quanujian	0.37	2.51
631	Barrow	0.2	2.06
632	Shenzhen FC	0.4	2.6
633	Chongqing Lifan	0.3	2.35
634	Hartlepool	0.38	2.56

635	Walsall	0.2	2.11
636	Sutton United	0.23	2.26
637	AFC Wimbledon	0.24	2.3
638	Doncaster Rovers	0.2	2.35
639	Forest Green Rovers	0.2	2.38
640	Crawley Town	0.2	2.41
641	Guizhou Renhe	0.2	2.61

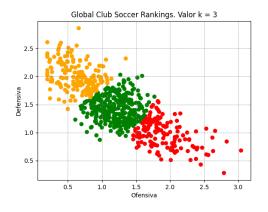
## **RESULTADOS**

Se obtuvieron gráficas de dispersión para diferentes valores de k, permitiendo la visualización de cómo los equipos se agrupan en el espacio de calificaciones ofensivas y defensivas.

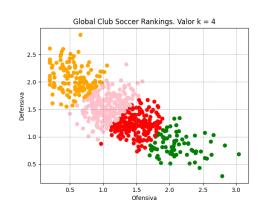
Para k = 2



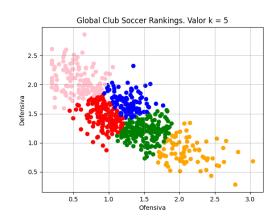
Para k = 3



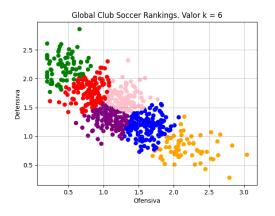
Para k = 4



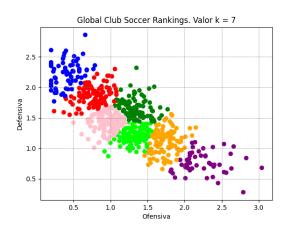
Para k = 5



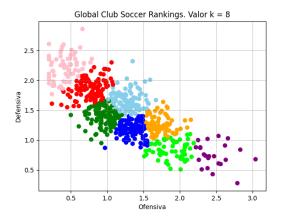
## Para k = 6



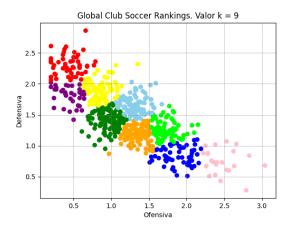
Para k = 7



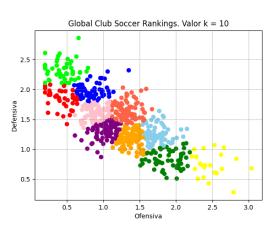
Para k = 8



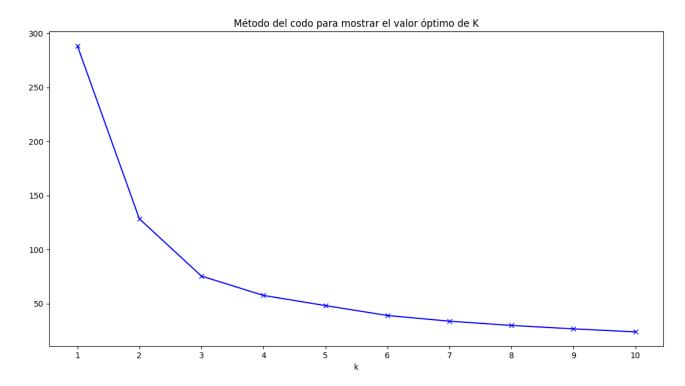
Para k = 9



Para k = 10

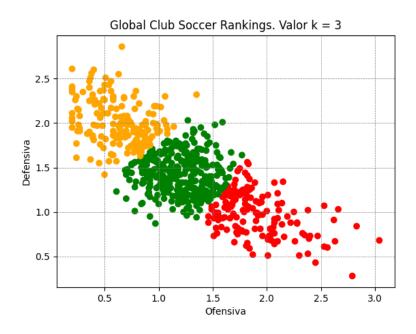


La gráfica de codo mostró la inercia en función de k, ayudando a identificar el valor óptimo de clusters para el conjunto de datos.



En la grafica de codo se puede observar que el valor optimo para el numero de clusters es 3.

Grafica de dispersión con el valor optimo k = 3:



# Datos agrupados

ran k	name	off	def	etiqueta s
456	Arminia Bielefeld	1.1 4	1.9 6	0
464	Guangzhou Evergrande	1.0 8	1.9	0
466	SV Zulte Waregem	1.3	2.3	0
467	Pau	0.9	1.7	0
470	Hannover 96	1.0	1.9	0
471	Kashiwa Reysol	0.9	1.7	0
472	Ross County	0.9	1.7	0
475	Spal	0.8	1.6	0
477	Perugia	0.8	1.6 7	0
478	Nimes	1.0	1.9	0
481	Stromsgodset	0.9	1.8	0
482	San Antonio FC	0.8	1.7	0
483	Kyoto Purple	0.8	1.6	0
485	Sanga AIK	0.8	1.7	0
486	Gamba Osaka	0.9	1.8	0
487	Stabaek	0.9	1.8	0
488	Livingston	0.8	5 1.6 9	0
489	Cashpoint SC Rheindorf Altach	0.8	1.6	0
490	Sydney FC	1.0	2.0	0
491	Ternana	0.8	1.7	0
492	Charlton Athletic	0.9	1.9	0
493	SV Ried	0.8	1.8	0
494	Western Sydney FC	0.9	1.9 7	0
495	Shonan Bellmare	0.8	1.7	0
496	Laval	0.8	1.7	0
497	Benevento	0.7	1.6	0
		7	7	

498	Beijing Guoan	0.9	1.9 9	0
499	1. FC Nürnberg	0.8	1.7	0
500	Louisville City FC	0.8	1.7 7	0
501	Dundee Utd	0.8 7	1.8 5	0
502	Wycombe Wanderers	0.7 8	1.7 2	0
503	Haugesund	0.8 7	1.8 6	0
504	Annecy	0.7 9	1.7 5	0
505	Shanghai SIPG	0.9	1.9 2	0
506	Jahn Regensburg	0.9	1.9 2	0
507	San Diego Loyal SC	0.9 5	2	0
508	Tampa Bay Rowdies	0.8 8	1.9	0
509	Pyunik Yerevan	0.8 7	1.9	0
510	IFK Goteborg	0.8	1.8	0
511	UD Ibiza	0.7 1	1.6 6	0
512	Fleetwood Town	0.7 6	1.7 5	0
513	Hansa Rostock	0.7 7	1.7 7	0
514	Sacramento Republic FC	0.7 9	1.8 1	0
515	FC Khimki	0.8	1.8 7	0
516	KV Oostende	1.0	2.1 8	0
517	Winterthur	0.8	1.8 6	0
518	Brescia	0.7 4	1.7 4	0
519	Giannina	0.7	1.7 2	0
520	AC Horsens	0.8 8	1.9 8	0
521	Arizona United	0.8 7	1.9 8	0
522	Memphis 901 FC	0.9 5	2.1	0
523	Lincoln City	0.6	1.5 7	0
524	Eintracht Braunschweig	0.8 8	2.0	0
525	Adelaide United	1.0 6	2.3	0

526	Albirex Niigata	0.8	1.9 3	0
527	Eupen	0.9	2.1	0
528	Exeter City	0.8	1.9	0
529	Asteras Tripolis	0.5	1.4	0
530	Sandefjord	0.9	2.1	0
531	Melbourne Victory	0.7	1.9	0
532	FC Sion	7 0.9	2.1	0
332	1 C 31011	6	9	· ·
533	IK Sirius	0.7 9	1.9 4	0
534	Colorado Springs Switchbacks FC	0.7 7	1.9 2	0
535	Torpedo Moskow	0.7	1.8	0
		2	6	
536	Lugo	0.5 8	1.6	0
537	Cosenza	0.5	1.5	0
		4	7	
538	Shamrock Rovers	0.6	1.8	0
539	Mjallby	0.5	1.6	0
540	Oxford United	0.6	1.7	0
541	Black Aces	0.5	6 1.6	0
341	DIACK ACES	6	5	O
542	RFC Seraing	0.7 5	1.9 8	0
543	Oakland Roots	0.7	1.9	0
544	Brommapojkarna	5 0.7	1.9	0
	' '		1	
545	Stellenbosch FC	0.6 4	1.8	0
546	Volos NFC	0.6 7	1.9	0
547	Burton Albion	0.7	2.0	0
548	Aalesund	0.7	1.9	0
F40	El Paso Locomotive	1	8	0
549	FC	0.7 2	2	0
550	Niort	0.7	1.9 8	0
551	Ionikos FC	0.5 8	1.7 7	0
552	Levadiakos	0.6	1.8	0
		1	3	
553	Shrewsbury Town	0.6	1.8 7	0

554	SuperSport United	0.4	1.5	0
		5	5	
555	SV Sandhausen	0.7	2.0	0
		2	4	
556	Shandong Luneng	0.8	2.2	0
557	Salford City	0.7	2.1	0
337	Salioru City	8	6	U
558	Jiangsu Suning FC	0.7	2.0	0
		1	4	
559	Cheltenham Town	0.6	1.9	0
		7	9	
560	Gazisehir	0.7	2.0	0
561	Gaziantep Halmstads BK	0.6	5 1.9	0
301	Haimstads bit	4	4	U
562	Mansfield Town	0.7	2.0	0
		1	8	
563	Milton Keynes	0.5	1.8	0
	Dons	8	6	
564	Panetolikos	0.6	1.9 7	0
565	New Mexico	0.6	2.0	0
	United	7	4	
566	Yokohama FC	0.6	2	0
		5		
567	Stockport County	0.4	1.7	0
568	Hamarkamaratene	9	2.0	0
308	riamarkamaratene	8	8	U
569	IFK VĤrnamo	0.5	1.9	0
		8	1	
570	Pittsburgh	0.5	1.8	0
F74	Riverhounds	1	2	0
571	Bristol Rovers	0.6 5	2.0	0
572	Western United	0.7	2.3	0
		7		
573	Wellington	0.7	2.3	0
	Phoenix	9	6	
574	Orange County SC	0.5	1.9	0
575	TS Galaxy	0.3	9 1.5	0
3/3	13 Galaxy	7	9	U
576	Kaizer Chiefs	0.4	1.7	0
		6	6	
577	Birmingham	0.6	2.1	0
	Legion FC	6	9	
578	Brisbane Roar	0.6	2.0	0
579	Lamia	0.4	1.8	0
3,3	2611110	7	5	J
580	Newcastle Jets	0.6	2.2	0
		8	8	
581	Degerfors IF	0.6	2.2	0
		8	9	

583 584	AmaZulu	0.4	6 1.8	-
E0/			1	0
364	Bradford City	0.4 8	1.9	0
585	Swindon Town	0.5	2.1 7	0
586	Miami FC	0.5 3	2.1	0
587	Leyton Orient	0.3 9	1.8 4	0
588	Carlisle United	0.3 9	1.8 6	0
589	Morecambe	0.5 8	2.2 6	0
590	Golden Arrows	0.4	1.9 7	0
591	Newport County	0.4 9	2.1 1	0
592	Hatayspor	0.5 8	2.2 9	0
593	Royal AM	0.4 6	2.0 6	0
594	Perth Glory	0.5 8	2.3	0
595	Sekhukhune United	0.2 4	1.6 1	0
596	Cambridge United	0.4	1.9 8	0
597	Stevenage	0.3 6	1.9	0
598	Northampton Town	0.3 4	1.8	0
599	Hartford Athletic	0.5 6	2.3 6	0
600	Monterey Bay	0.4 7	2.1 7	0
601	Indy Eleven	0.4 3	2.1 1	0
602	Tianjin Teda	0.5	2.2 6	0
603	Macarthur FC	0.6 3	2.5 5	0
604	Varbergs BoIS FC	0.4 9	2.2 7	0
605	Charleston Battery	0.4 5	2.2 2	0
606	Shanghai Greenland	0.5 6	2.4 7	0
607	Harrogate Town	0.5 4	2.4 3	0
608	Moroka Swallows	0.2 4	1.7 7	0
609	Tulsa Roughnecks	0.4 9	2.3 7	0

610	Rio Grande Valley FC Toros	0.4	2.2	0
611	Hebei China Fortune FC	0.5	2.4	0
612	Colchester United	0.2 7	1.9	0
613	Henan Jianye	0.4	2.3	0
614	Las Vegas Lights FC	0.4	2.2	0
615	Gillingham	0.2 7	1.9 4	0
616	Dalian Aerbin	0.5	2.5 1	0
617	Tshakhuma Tsha Madzivhandila	0.2 5	1.9 1	0
618	Guangzhou RF	0.6 6	2.8 6	0
619	Maritzburg Utd	0.2 6	1.9 8	0
620	Accrington Stanley	0.3	2.2 8	0
621	Wuhan Zall	0.3 9	2.3	0
622	Crewe Alexandra	0.3 6	2.2 5	0
623	Detroit City FC	0.2 7	2.0 8	0
624	Richards Bay	0.2	1.9 5	0
625	Rochdale	0.3 6	2.4	0
626	Grimsby Town	0.2 6	2.1 5	0
627	Chippa United	0.2	2.1	0
628	Tranmere Rovers	0.2	2.0	0
629	Loudoun United FC	0.3	2.4	0
630	Tianjin Quanujian	0.3	2.5	0
631	Barrow	0.2	2.0	0
632 633	Shenzhen FC Chongqing Lifan	0.4	2.6	0
634	Hartlepool	0.3	2.5	0
635	Walsall	0.2	2.1 1	0
636	Sutton United	0.2	2.2	0
637	AFC Wimbledon	0.2	2.3	0
638	Doncaster Rovers	0.2	2.3 5	0

639	Forest Green	0.2	2.3	0
	Rovers		8	
640	Crawley Town	0.2	2.4	0
641	Guizhou Renhe	0.2	2.6	0
1	Manchester City	2.7 9	0.2	1
2	Bayern Munich	3.0	0.6	1
3	Barcelona	2.4	0.4	1
4	Real Madrid	2.5	0.6	1
5	Liverpool	2.6	0.6	1
6	Arsenal	2.5	0.6	1
7	Newcastle	2.3	0.5	1
8	Napoli	2.3	0.5	1
9	Borussia Dortmund	2.8	0.8	1
10	Brighton and Hove Albion	2.4	0.7	1
11	RB Leipzig	2.3	0.7	1
12	Benfica	2.4	0.7	1
13	Aston Villa	2.0	0.5	1
14	Atletico Madrid	2.2	0.6	1
15	Paris Saint- Germain	2.6	0.9	1
16	Manchester United	2.3	0.7	1
17	Internazionale	2.3	0.7	1
18	Ajax	2.6	1.0	1
19	Lille	2.0	0.6	1
20	Brentford	2.1	0.6	1
21	Real Sociedad	1.8	0.5	1
22	Sporting CP	2.0	0.6	1
23	FC Porto	2.1	0.7	1
24	Chelsea	2.0	0.6	1
25	Feyenoord	2.2	0.8	1
		U		

26	Lyon	2.2	0.8	1
		8	8	
27	Stade Rennes	2.0	0.6 9	1
28	Bayer Leverkusen	2.0	0.7	1
29	Athletic Bilbao	1.8	0.5 9	1
30	Celtic	2.5	1.0	1
31	Zenit St Petersburg	2.0	0.7	1
32	Fiorentina	2.0	0.7	1
33	FC Twente	2.2	0.8	1
34	Marseille	2.0	0.7	1
35	PSV	2.3	1.0	1
36	Crystal Palace	1.8	0.6	1
37	Villarreal	2.1	0.8	1
38	Lens	1.9 6	0.7	1
39	AC Milan	2.0	0.8	1
40	AS Roma	1.8	0.6 5	1
41	FC Salzburg	2.0	0.8	1
42	FC Cologne	2.0	0.8	1
43	Tottenham Hotspur	2.1 9	0.9 5	1
44	Rangers	2.2	1	1
45	Eintracht Frankfurt	2.0 7	0.8 8	1
46	West Ham United	1.9 4	0.8	1
47	Atalanta	2.1	0.9	1
48	VfL Wolfsburg	2.0 7	0.9	1
49	Juventus	1.8 9	0.8	1
50	Torino	1.7	0.6 6	1
51	Sevilla FC	1.8	0.7	1
52	Mainz	2.1	1.0	1
53	Palmeiras	1.7	0.7	1
			_	

		4 =	0.7	
54	Valencia	1.7	0.7 5	1
55	Lazio	1.7	0.7	1
56	Fulham	7 1.9	0.9	1
57	Besiktas	2.1	1.1	1
57	Desiklas	4	1.1	1
58	Celta Vigo	1.7 2	0.7 7	1
59	Nice	1.7 5	0.8	1
60	VfB Stuttgart	1.9 6	0.9 7	1
61	Borussia Monchengladbach	2.1	1.0	1
62	Galatasaray	2	1.0	1
63	AZ	1.9	0.9	1
		2	6	
64	Girona FC	1.9	0.9 7	1
65	Real Betis	1.7	0.8	1
	CC Facility	3	2	
66	SC Freiburg	1.9 1	0.9 9	1
67	Flamengo	1.9	0.9	1
68	Strasbourg	1.7 8	0.8	1
69	1. FC Union Berlin	1.7	0.8	1
70	Osasuna	1.6 3	0.8	1
71	Young Boys	2.1	1.2	1
72	Atletico Mineiro	1.5 4	0.7 6	1
73	Getafe	1.5 1	0.7	1
74	AS Monaco	1.9	1.1	1
75	Leicester City	1.8	1.0	1
76	KAA Gent	1.9	1.1	1
77	Reims	1.7	0.9	1
78	Bologna	1.7	1	1
79	Werder Bremen	1.9	1.1	1
80	Fenerbahce	2.0	1.1	1
81	Monterrey	1.5	0.8	1
82	Everton	1.8	1.0	1

83	TSG Hoffenheim	1.9 6	1.1 7	1
84	Sassuolo	1.9	1.1	1
85	Slavia Prague	1.8	1.0 6	1
86	Braga	1.7	1.0	1
87	Bodo/Glimt	2.1	1.3	1
88	Burnley	1.5	0.8	1
89	Rayo Vallecano	1.6	0.9	1
90	Olympiacos	1.6	0.9	1
91	Dinamo Zagreb	1.8	1.0	1
92	Genk	2.0	1.3	1
93	Clermont Foot	1.6 1	0.9	1
94	AEK Athens	1.5 9	0.9	1
95	Club Brugge	1.8 5	1.1	1
96	Tigres UANL	1.5 5	0.9	1
97	Club América	1.8	1.1	1
98	Toulouse	1.6 4	1.0	1
99	Udinese	1.6 7	1.0 6	1
100	Lecce	1.4 6	0.8	1
101	Mallorca	1.5 1	0.9	1
102	Antwerp	1.5 5	0.9	1
103	AFC Bournemouth	1.6	1.0	1
104	Schalke 04	1.8	1.2	1
105	CSKA Moscow	1.5	0.9	1
106	Wolverhampton	1.5	0.9	1
107	Leeds United	1.8	1.2	1
108	SK Sturm Graz	1.7	1.1	1
109	River Plate	1.6	1.0	1
110	Espanyol	1.8	1.2	1
		6	7	

111	Monza	1.6	1.1	1
112	Vitesse	1.6	1.0	1
113	São Paulo	5 1.5	0.9	1
114	Montpellier	3 1.7	9	1
115	SlovÃjcko	7 1.7	1.2	1
		7	1	
116	Red Star Belgrade	1.7 5	1.1 9	1
117	Cadiz	1.5	0.9	1
118	Adana Demirspor	1.8	1.3	1
119	FC Copenhagen	1.7	1.2	1
120	Union Saint	1.8	1.2	1
121	Gilloise Botafogo	1.4	0.9	1
122	FC Utrecht	6 1.7	5 1.2	1
		8	5	
123	Shakhtar Donetsk	1.7 7	1.2 4	1
124	Elche	1.6	1.1	1
125	Almeria	1.6 9	1.1	1
126	FC Augsburg	1.7	1.2	1
127	Southampton	1.6	1.1	1
128	Sheffield United	1.4	1.0	1
129	VfL Bochum	9	1.3	1
130	Fluminense	1.5	7 1.0	1
124	Nottingham Farest	3	8	1
131	Nottingham Forest	1.6 4	1.1 9	1
132	Sparta	1.7	1.2 5	1
133	Middlesbrough	1.6	1.1 7	1
134	Brest	1.4 9	1.0	1
135	FC Midtjylland	1.6	1.2	1
137	Pachuca	1.5	1.1	1
138	Viktoria Plzen	1.8	1.4	1
139	FC Krasnodar	1.7	1.3	1
			1	

140	Ferencvaros	1.6 1	1.2	1
142	Lokomotiv Moscow	1.6	1.2	1
143	Trabzonspor	1.8	1.4	1
144	Real Valladolid	1.5 5	1.2	1
145	Hertha Berlin	1.7	1.3	1
146	Philadelphia Union	1.6	1.2	1
150	Los Angeles FC	1.6	1.2	1
154	Ipswich Town	1.6	1.3	1
157	Molde	1.8	1.5	1
165	FK Austria Vienna	1.7	1.4	1
167	Fatih Karagümrük	1.8 2	1.5 6	1
170	Yokohama F. Marinos	1.7	1.4	1
136	Luton Town	1.3	0.9	2
141	Internacional	1.3	1.0	2
147	Lorient	1.4	1.1	2
148	Bragantino	1.4	1.1	2
149	Empoli	1.5 7	1.2	2
151	Spartak Moscow	1.5	1.2	2
152	Dynamo Kiev	1.5	1.1	2
153	Fortaleza	1.3	1	2
155	Guimaraes	1.2	0.9	2
156	Istanbul Basaksehir	1.3	1.1	2
158	Anderlecht	1.4	1.1	2
159	León	1.3	1.0	2
160	Atlético Paranaense	1.3	1.1	2
161	SC Dnipro-1	1.5	1.2	2
162	Atlas	1.4	1.1	2
163	Lech Poznan	1.4	1.1	2
164	Swansea City	1.5	1.2	2

166	Steaua Bucuresti	1.5	1.2	2
168	Terek Grozny	1.4 6	1.2	2
169	Go Ahead Eagles	1.6 5	1.3 9	2
171	Cercle Brugge	1.6 2	1.3 8	2
172	FC Sheriff Tiraspol	1.5 1	1.2 7	2
173	FK Partizan Belgrade	1.4 1	1.1 7	2
174	Nantes	1.3 5	1.1	2
175	LASK Linz	1.5 3	1.3	2
176	Vasco da Gama	1.4 4	1.2 1	2
177	Corinthians	1.2	1	2
178	Coventry City	1.2 8	1.0 6	2
179	PAOK Salonika	1.4	1.1 8	2
180	Guadalajara	1.3 5	1.1	2
181	Santos	1.2 6	1.0 4	2
182	Famalicao	1.4 4	1.2 4	2
183	Verona	1.3 7	1.1 8	2
184	Cruz Azul	1.3 2	1.1	2
185	Vissel Kobe	1.4 8	1.3	2
186	Konyaspor	1.4 2	1.2 4	2
187	Metz	1.3 2	1.1 5	2
188	Boavista	1.3 9	1.2	2
189	Frosinone	1.3 7	1.1 9	2
190	Heerenveen	1.6 6	1.4 9	2
191	Cruzeiro	1.3 6	1.1 9	2
192	Talleres de Córdoba	1.3 4	1.1 7	2
193	Argentinos Juniors	1.2 7	1.1 1	2
194	FK Qarabag	1.4 1	1.2 5	2
195	Maccabi Haifa	1.6 9	1.5 4	2

196       Malmo FF       1.5       1.4       2         197       Hapoel Be'er       1.4       1.3       2         198       BK Hacken       1.7       1.6       2         199       Spezia       1.4       1.3       2         200       NEC       1.5       1.4       2         4       1       1.4       1.3       2         201       Toluca       1.5       1.4       2         202       Salernitana       1.4       1.3       2         8       6       4       2         203       West Bromwich Albion       7       5       2         Albion       7       5       2       2         6       4       1.2       1.2       2         6       4       1.2       2       2         204       Gil Vicente       1.3       1.2       2         205       Rapid Vienna       1.5       1.4       2         206       Chaves       1.4       1.2       2         207       Auxerre       1.3       1.2       2         208       Cagliari       1.2       1.1       2					
197       Hapoel Be'er       1.4       1.3       2         198       BK Hacken       1.7       1.6       2         199       Spezia       1.4       1.3       2         200       NEC       1.5       1.4       2         4       1       1       2         201       Toluca       1.5       1.4       2         6       4       1       1       2         202       Salernitana       1.4       1.3       1.2       2         Albion       7       5       2       2         Albion       1.3       1.2       2       2         Albion       1.3       1.2       2       2         6       4       4       2       2         204       Gil Vicente       1.3       1.2       2       2         205       Rapid Vienna       1.5       1.4       2       2         206       Chaves       1.4       1.2       2       2         207       Auxerre       1.3       1.2       2       2         208       Cagliari       1.2       1.1       2       2	196	Malmo FF			2
198       BK Hacken       1.7       1.6       2         199       Spezia       1.4       1.3       2         5       2       2         200       NEC       1.5       1.4       2         201       Toluca       1.5       1.4       2         6       4       1       2         8       6       4       2         202       Salernitana       1.4       1.3       2         8       6       4       2         Albion       7       5       2         204       Gil Vicente       1.3       1.2       2         6       4       2       2       2         205       Rapid Vienna       1.5       1.4       2       2         206       Chaves       1.4       1.2       2       2         207       Auxerre       1.3       1.2       2       2         208       Cagliari       1.2       1.1       2       2         209       FC Cincinnati       1.4       1.4       1.4       2         209       FC Cincinnati       1.4       1.3       2 <tr< th=""><th>197</th><th>Hapoel Be'er</th><th>1.4</th><th></th><th>2</th></tr<>	197	Hapoel Be'er	1.4		2
199         Spezia         1.4         1.3         2           200         NEC         1.5         1.4         2           4         1         2         4         1           201         Toluca         1.5         1.4         2           6         4         1.3         2         2           202         Salernitana         1.4         1.3         1.2         2           8         6         6         4         2         2           203         West Bromwich Albion         7         5         5         2         2           204         Gil Vicente Albion         1.3         1.2         1         2         2         2         2         2         2         2         2         2	198	BK Hacken	1.7	1.6	2
200         NEC         1.5         1.4         2           201         Toluca         1.5         1.4         2           6         4         1         2           6         4         1.3         2           8         6         4         2           203         West Bromwich Albion         1.3         1.2         2           204         Gil Vicente         1.3         1.2         2           6         4         2         2         4           205         Rapid Vienna         1.5         1.4         2         2           206         Chaves         1.4         1.2         2         2         3         1         2         2         2         3         1         2         2         2         3         1         2         2         2         2         1         2         2         2         1         2         2         2         1         2         2         2         1         2         2         2         2         1         2         2         2         2         1         2         2         2         2         2	199	Spezia	1.4	1.3	2
201       Toluca       1.5       1.4       2         202       Salernitana       1.4       1.3       2         8       6       4       2         203       West Bromwich Albion       1.3       1.2       2         204       Gil Vicente       1.3       1.2       2         6       4       2       6       4         205       Rapid Vienna       1.5       1.4       2         206       Chaves       1.4       1.2       2         207       Auxerre       1.3       1.2       2         3       1       1.2       2       1         208       Cagliari       1.2       1.1       2         2       1       1.4       1.4       2         9       2       1.4       1.4       1.4       2         209       FC Cincinnati       1.4       1.4       1.4       2         201       Vizela       1.2       1.1       2         211       Santos Laguna       1.4       1.3       2         212       Stoke City       1.2       1.1       2         213       AGF Aarhus <th>200</th> <th>NEC</th> <th>1.5</th> <th>1.4</th> <th>2</th>	200	NEC	1.5	1.4	2
202       Salernitana       1.4       1.3       2         203       West Bromwich Albion       1.3       1.2       2         204       Gil Vicente       1.3       1.2       2         6       4       2       6       4         205       Rapid Vienna       1.5       1.4       2         8       7       2       2         206       Chaves       1.4       1.2       2         207       Auxerre       1.3       1.2       2         3       1       2       1       2         208       Cagliari       1.2       1.1       2         209       FC Cincinnati       1.4       1.4       1.4       2         209       FC Cincinnati       1.4       1.4       1.4       2         210       Vizela       1.2       1.1       2         211       Santos Laguna       1.4       1.3       2         212       Stoke City       1.2       1.1       2         213       AGF Aarhus       1.2       1.1       2         214       Cremonese       1.4       1.4       1.4       2 <tr< th=""><th>201</th><th>Toluca</th><th>1.5</th><th>1.4</th><th>2</th></tr<>	201	Toluca	1.5	1.4	2
203       West Bromwich Albion       1.3       1.2       2         204       Gil Vicente       1.3       1.2       2         6       4       2       2         6       4       2       2         205       Rapid Vienna       1.5       1.4       2         8       7       2       2         206       Chaves       1.4       1.2       2         207       Auxerre       1.3       1.2       2         3       1       2       1       2         208       Cagliari       1.2       1.1       2         2       1       1.4       1.4       1.4       2         9       PC Cincinnati       1.4       1.4       1.4       2         9       1.2       1.1       2       2         211       Santos Laguna       1.4       1.3       2         212       Stoke City       1.2       1.1       2         213       AGF Aarhus       1.2       1.1       2         214       Cremonese       1.4       1.4       1.4       2         215       FC Arouca       1.1       <	202	Salernitana	1.4	1.3	2
204       Gil Vicente       1.3       1.2       2         205       Rapid Vienna       1.5       1.4       2         8       7       2         206       Chaves       1.4       1.2       2         207       Auxerre       1.3       1.2       2         208       Cagliari       1.2       1.1       2         209       FC Cincinnati       1.4       1.4       1.4       2         209       FC Cincinnati       1.4       1.4       2         3       2       2       1       2         210       Vizela       1.2       1.1       2         211       Santos Laguna       1.4       1.3       2         212       Stoke City       1.2       1.1       2         213       AGF Aarhus       1.2       1.1       2         214       Cremonese       1.4       1.4       1.0       2         215	203		1.3	1.2	2
205       Rapid Vienna       1.5       1.4       2         206       Chaves       1.4       1.2       2         207       Auxerre       1.3       1.2       2         3       1       2       1       2         208       Cagliari       1.2       1.1       2         209       FC Cincinnati       1.4       1.4       2         210       Vizela       1.2       1.1       2         211       Santos Laguna       1.4       1.3       2         212       Stoke City       1.2       1.1       2         213       AGF Aarhus       1.2       1.1       2         214       Cremonese       1.4       1.4       2         215       FC Arouca       1.1       1.0       2         216       Gazovik Orenburg       1.5       1.4       2         217       Boca Juniors       1.1       1.0       2         218       Atlanta United FC       1.5       1.5       2         219       Panathinaikos       0.9       0.8       2         7       7       2         220       Millwall       1	204		1.3	1.2	2
207       Auxerre       1.3       1.2       2         208       Cagliari       1.2       1.1       2         209       FC Cincinnati       1.4       1.4       1.4       2         210       Vizela       1.2       1.1       2         3       2       2       2       1.1       2         211       Santos Laguna       1.4       1.3       2         3       5       5       5       5         212       Stoke City       1.2       1.1       2         8       9       9       2       2         213       AGF Aarhus       1.2       1.1       2       2         214       Cremonese       1.4       1.4       2       2         215       FC Arouca       1.1       1.0       2       2         216       Gazovik Orenburg       1.5       1.4       2         217       Boca Juniors       1.1       1.0       2         218       Atlanta United FC       1.5       1.5       2         6       7       7       7         220       Millwall       1.3       1.2       2	205	Rapid Vienna			2
208       Cagliari       1.2       1.1       2         209       FC Cincinnati       1.4       1.4       1.4       2         210       Vizela       1.2       1.1       2         3       2       2       2       1.2       1.1       2         3       5       5       5       5         211       Santos Laguna       1.4       1.3       2         3       5       5       5       5         212       Stoke City       1.2       1.1       2         213       AGF Aarhus       1.2       1.1       2         2 8       9       9       2         214       Cremonese       1.4       1.4       1.4       2         2 15       FC Arouca       1.1       1.0       2         8       9       9       2       2         216       Gazovik Orenburg       1.5       1.4       2         2 8       9       9       2       2         217       Boca Juniors       1.1       1.0       2         3       3       3       3       2         219       Panathin	206	Chaves	1.4		2
2 1 209 FC Cincinnati	207	Auxerre			2
210       Vizela       1.2       1.1       2         3       2         211       Santos Laguna       1.4       1.3       2         3       5         212       Stoke City       1.2       1.1       2         5       5       5         213       AGF Aarhus       1.2       1.1       2         8       9       2         214       Cremonese       1.4       1.4       2         215       FC Arouca       1.1       1.0       2         8       9         216       Gazovik Orenburg       1.5       1.4       2         5       8         9       2       2         217       Boca Juniors       1.1       1.0       2         3       3       3       3         218       Atlanta United FC       1.5       1.5       2         6       2       7       7         220       Millwall       1.3       1.2       2         221       Genoa       1.2       1.1       2         222       Aris Salonika       1.4       1.3       2	208	Cagliari			2
211       Santos Laguna       1.4       1.3       2         212       Stoke City       1.2       1.1       2         5       5       5       5         213       AGF Aarhus       1.2       1.1       2         8       9       2       2       2       2       2         215       FC Arouca       1.1       1.0       2 <th>209</th> <th>FC Cincinnati</th> <th></th> <th>1.4</th> <th>2</th>	209	FC Cincinnati		1.4	2
3   5   212   Stoke City   1.2   1.1   2   5   5   5   5   2   213   AGF Aarhus   1.2   1.1   2   8   9   2   2   2   2   2   2   2   2   2	210	Vizela			2
S   S   S   S   S   S   S   S   S   S	211	Santos Laguna			2
214       Cremonese       1.4       1.4       2         215       FC Arouca       1.1       1.0       2         8       9         216       Gazovik Orenburg       1.5       1.4       2         5       8         217       Boca Juniors       1.1       1.0       2         3       3       3         218       Atlanta United FC       1.5       1.5       2         6       1.5       1.5       2         219       Panathinaikos       0.9       0.8       2         7       7       7         220       Millwall       1.3       1.2       2         221       Genoa       1.2       1.1       2         221       Genoa       1.2       1.1       2         222       Aris Salonika       1.4       1.3       2         223       Grêmio       1.4       1.3       2	212	Stoke City			2
215     FC Arouca     1.1     1.0     2       216     Gazovik Orenburg     1.5     1.4     2       5     8     9       217     Boca Juniors     1.1     1.0     2       3     3     3       218     Atlanta United FC     1.5     1.5     2       6     0.9     0.8     2       7     7     7       220     Millwall     1.3     1.2     2       221     Genoa     1.2     1.1     2       221     Aris Salonika     1.4     1.3     2       222     Aris Salonika     1.4     1.3     2       223     Grêmio     1.4     1.3     2	213	AGF Aarhus			2
216     Gazovik Orenburg     1.5     1.4     2       5     8       217     Boca Juniors     1.1     1.0     2       3     3       218     Atlanta United FC     1.5     1.5     2       6     2       219     Panathinaikos     0.9     0.8     2       7     7     7       220     Millwall     1.3     1.2     2       221     Genoa     1.2     1.1     2       4     6       222     Aris Salonika     1.4     1.3     2       223     Grêmio     1.4     1.3     2	214	Cremonese		1.4	2
Soca Juniors	215	FC Arouca			2
3   3   218   Atlanta United FC   1.5   1.5   2   6	216	Gazovik Orenburg			2
219     Panathinaikos     0.9     0.8     2       7     7     7       220     Millwall     1.3     1.2     2       3     5       221     Genoa     1.2     1.1     2       4     6       222     Aris Salonika     1.4     1.3     2       4     6       223     Grêmio     1.4     1.3     2	217	Boca Juniors			2
220 Millwall 1.3 1.2 2 3 5 221 Genoa 1.2 1.1 2 4 6 222 Aris Salonika 1.4 1.3 2 223 Grêmio 1.4 1.3 2	218	Atlanta United FC		1.5	2
221 Genoa 1.2 1.1 2 4 6 222 Aris Salonika 1.4 1.3 2 223 Grêmio 1.4 1.3 2	219	Panathinaikos			2
222 Aris Salonika 1.4 1.3 2 223 Grêmio 1.4 1.3 2	220	Millwall			2
223 Grêmio 1.4 1.3 2	221	Genoa			2
	222	Aris Salonika	1.4		2
	223	Grêmio			2

224	Angers	1.3	1.2 7	2
225	Estudiantes	1.1	1.1	2
226	Dinamo Moscow	1.4	1.4	2
227	Nashville SC	1.3	1.2	2
228	St Gallen	1.6	1.6	2
229	Casa Pia	7 1.2	7 1.2	2
230	St Etienne	1.5	1.5	2
231	Rio Ave	1.2	3 1.2	2
232	Urawa Red	5 1.1	2 1.1	2
	Diamonds	9	7	
233	Sunderland	1.3	1.3 5	2
234	BahÃa	1.2	1.2	2
235	Norwich City	1.2	1.2	2
236	Brondby	1.5	1.6	2
237	Watford	1.2	1.2	2
238	IF Elfsborg	1.5	9 1.5 3	2
239	Bordeaux	1.1	1.1	2
240	América Mineiro	1.3	1.3	2
241	KVC Westerlo	1.5	1.6	2
242	Kawasaki Frontale	1.3	1.4	2
242	ACK Lorness	9	4	
243	AEK Larnaca	1.1	1.1	2
244	Apollon Limassol	1.2	1.2	2
245	Columbus Crew	1.4 4	1.5	2
246	Seattle Sounders FC	1.3	1.3 5	2
247	FC Lugano	1.4 5	1.5 1	2
248	New York City FC	1.3	1.3	2
249	OH Leuven	1.4	1.5	2
250	New York Red Bulls	1.1	1.1	2
251	San Lorenzo	0.9	0.9	2
		2	5	

252	Blackburn	1.1	1.2	2
253	Santa Clara	1.2	1.3	2
254	FC St. Pauli	1.3	1.3 9	2
255	Rostov	1.3	1.4	2
256	Maritimo	1.3	1.4	2
	Hibernian			
257		1.3	1.4	2
258	Bristol City	1.1 7	1.2 5	2
259	Hearts	1.4	1.5 2	2
260	Rosenborg	1.5 4	1.6 7	2
261	FC Nordsjaelland	1.3	1.4	2
	. J	4	6	_
262	Lanus	1.1	1.2	2
		9	9	
263	CFR 1907 Cluj	1.2	1.3	2
		2	3	
264	Orlando City SC	1.3 5	1.4 7	2
265	Wolfsberger AC	1.4	1.5	2
203	Wollsbeigel AC	3	8	2
266	Levante	1.0	1.1	2
	Levante	5	5	_
267	Viborg	1.1	1.3	2
268	DC United	1.3	1.4	2
		2	6	
269	Kashima Antlers	1.1	1.3	2
		8		
270	Tenerife	1	1.0 9	2
271	FC Dallas	1.2	1.3	2
272	New England	1.4	1.5	2
	Revolution	1	7	
273	Cuiaba	1.0	1.2	2
		9	2	
274	Basel	1.3	1.5 8	2
275	Vancouver	1.4	1.5 9	2
276	Whitecaps	1.2	_	2
276	Ludogorets	1.3	1.4 9	2
277	Nagoya Grampus Eight	1.1	1.2 7	2
278	Hamburg SV	1.5	1.7	2
270	Tambarg 5 v	3	5	2
279	Parma	1.1	1.2	2
		1	7	
280	Puebla	1.3	1.5	2
		2	2	

281	Sampdoria	1.3 6	1.5 7	2
282	Standard Liege	1.3	1.5	2
283	Motherwell	1.2	1.4	2
284	Silkeborg	1.3	1.5 9	2
285	FC Andorra	1.0	1.2	2
286	Sporting de Charleroi	1.3	1.5 4	2
287	FC Zurich	1.3 5	1.5 7	2
288	St. Truidense	1.0	1.2 6	2
289	Velez Sarsfield	0.9 7	1.1 4	2
290	Pumas Unam	1.2 5	1.4 7	2
291	SC Paderborn	1.4 4	1.6 9	2
292	Portimonense	1.1 6	1.3 7	2
293	Defensa y Justicia	1.0 9	1.2 9	2
294	Bastia	1.2	1.4 2	2
295	Estoril Praia	1.1 6	1.3 8	2
296	Portland Timbers	1.2 9	1.5 4	2
297	Granada	0.9 9	1.1 9	2
298	Bari	1.1	1.3 2	2
299	Mamelodi Sundowns	1.0 4	1.2 5	2
300	Sanfrecce Hiroshima	1.1 7	1.4 1	2
301	Servette	1.3	1.6 1	2
302	Atlético San Luis	1.1 8	1.4 4	2
303	Los Angeles Galaxy	1.4	1.7	2
304	FC Volendam	1.4 7	1.7 8	2
305	RKC	1.4 5	1.7 6	2
306	Caen	1.1 8	1.4 4	2
307	Odense BK	1.3 5	1.6 5	2
308	GoiÃjs	1.1 1	1.3 6	2
309	Sivasspor	1.2 5	1.5 3	2

310	Kasimpasa	1.3	1.5 9	2
311	Coritiba	1.0 9	1.3 5	2
312	Guingamp	1.1	1.4	2
313	Tigre	1.0	1.3	2
314	Minnesota United FC	1.2	1.5	2
315	F.B.C Unione Venezia	1.2	1.5	2
316	Necaxa	1.0	1.3	2
317	Rosario Central	1.1	1.3	2
318	Hull City	1.0	1.3	2
319	Fortuna Düsseldorf	1.2	1.5	2
320	Lillestrom	1.3	1.6	2
321	Kayserispor	1.3	1.7	2
322	Aberdeen	1.1	1.4	2
323	Paris FC	1.0	1.3	2
324	Preston North End	1.1	1.4	2
325	SK Brann	1.3	1.6	2
326	Real Zaragoza	0.9	1.1 7	2
327	Omonia Nicosia	1.2 5	1.5 7	2
328	Sporting Kansas City	1.1 6	1.4 6	2
329	Albacete	1.1	1.4 3	2
330	Antalyaspor	1.1 8	1.4 8	2
331	FC Luzern	1.3 2	1.6 5	2
332	Racing Club	1.1 7	1.4 8	2
333	Cerezo Osaka	1.0 9	1.3 8	2
334	Fortuna Sittard	1.3 6	1.7 1	2
335	Alavés	0.8 5	1.1	2
336	Newell's Old Boys	0.8 4	1.0 9	2
337	Karlsruher SC	1.3 2	1.6 7	2

220	Timene	1.1	1 -	2
338	Tijuana	8	1.5	2
339	Le Havre	0.7 8	1.0	2
340	San Jose Earthquakes	1.2 7	1.6 2	2
341	AC Ajaccio	1	1.2	2
342	Slovan Bratislava	1.1	1.4	2
343	Ural Sverdlovsk Oblast	0.9	1.2 7	2
344	1. FC Heidenheim 1846	1.2	1.5 7	2
345	Consadole Sapporo	1.5 9	2.0	2
346	Krylia Sovetov	1.0	1.3	2
347	Sheffield Wednesday	1.1	1.4 5	2
348	KV Mechelen	1.4 5	1.8 5	2
349	Toronto FC	1.1 7	1.5 1	2
350	Montreal Impact	1.2	1.5 7	2
351	HuracÃjn	0.9	1.2	2
352	Djurgardens IF	1.2 1	1.5 8	2
353	Pacos Ferreira	1.1	1.4 5	2
354	FC JuÃjrez	1.0	1.3 6	2
355	Eibar	0.9	1.2	2
356	Viking FK	1.5 2	1.9 8	2
357	CA Independiente	1.0 4	1.3 8	2
358	Colon Santa Fe	1.0 4	1.4	2
359	Barnsley	1.2 6	1.6 7	2
360	Sochi	1.1 1	1.5	2
361	Charlotte FC	1.2 4	1.6 6	2
362	Birmingham	1.0 2	1.4	2
363	Alanyaspor	1.4 2	1.8 8	2
364	Cardiff City	1.0 4	1.4	2
365	WSG Swarovski Wattens	1.3	1.7 8	2
366	Las Palmas	0.9 1	1.2 7	2

367	Godoy Cruz	1	1.3 9	2
368	Banfield	0.9	1.2	2
369	Randers FC	1.1	1.6 3	2
370	SpVgg Greuther Fürth	1.1	1.5 5	2
371	Ankaragucu	1.0 6	1.4 8	2
372	Istanbulspor	1.1 7	1.6 1	2
373	Chicago Fire	1.1 8	1.6 3	2
374	Querétaro	0.9 8	1.3 9	2
375	Troyes	1.2	1.7	2
376	Fakel Voronezh	1.0	1.4	2
377	Wigan	0.9	1.3 2	2
378	FC Groningen	1.2	1.7 3	2
379	Excelsior	1.2 6	1.7 5	2
380	Austria Lustenau	1.3	1.8 2	2
381	Austin FC	1.2	1.7	2
382	Como	1.0	1.5	2
383	Sochaux	1.0	1.4 7	2
384	Houston Dynamo	1.2	1.7	2
385	Huddersfield Town	0.9	1.4	2
386	Emmen	1.2	1.7	2
387	Grasshoppers Zürich	1.3	1.9	2
388	Valerenga	1.2	1.7	2
389	FK Nizhny Novgorod	0.9	1.3	2
390	SK Austria Klagenfurt	1.3	1.8	2
391	Colorado Rapids	1.0	1.5	2
392	Queens Park Rangers	1.0	1.5	2
393	Hammarby	1.2	1.7 5	2
394	Holstein Kiel	1.3	1.9 1	2

395	SV Darmstadt 98	1.0 7	1.5 8	2
396	Real Salt Lake	1.0 9	1.6	2
397	MazatlÃjn FC	1.1	1.6	2
398	Instituto	2 1	6 1.5	2
		_		
399	Atlético	0.9	1.4	2
	TucumÃjn	3	1	
400	Ballkani	1.2	1.7 6	2
401	Melbourne City	1.3	1.9	2
402	Leganes	0.8	1.3	2
400	FO.T. I	6	3	2
403	FC Tokyo	1.1 7	1.7 4	2
404	Sarmiento	0.9	1.4	2
		3	3	
405	Platense	0.8	1.3	2
		5	2	
406	Hartberg	1.1	1.7	2
		9	7	
407	Pisa	0.9	1.4	2
		3	4	
408	Belgrano Cordoba	0.9	1.4	2
409	Cambuur	1.2	1.8	2
	Leeuwarden	5	6	
410	Rotherham United	0.9	1.4	2
		6	8	
411	Gimnasia La Plata	0.8	1.3	2
		6	6	
412	Sudtirol	0.7	1.1	2
			5	
413	St. Louis CITY SC	1.1	1.7	2
		2	2	
414	Sagan Tosu	0.9	1.4	2
		2	6	
415	Bolton	0.8	1.4	2
		9	2	
416	Real Oviedo	0.7	1.2	2
		8	8	
417	Sarpsborg	1.1	1.7	2
		4	6	
418	Tromso	1.0	1.6	2
		8	9	
419	Umraniyespor	1.1	1.7	2
	, , , , , ,	4	7	
420	Palermo	1.0	1.6	2
		5	6	
421	Rigas Futbola Skola	1.1	1.8	2
	0.1 2.2.2.2 5	6		_
422	AaB	0.9	1.5	2
		9	8	_
423	Villarreal B	0.9	1.5	2
		8	6	
		J	•	

424	Giresunspor	1.0	1.6	2
		6	8	
425	1. FC Kaiserslautern	1.0	1.6 5	2
426	MÃjlaga	0.7	1.3	2
427	Blackpool	1.0	1.7	2
428	Plymouth Argyle	1.0	1.6	2
429	Racing Santander	0.8	6 1.4	2
430	Dijon FCO	0.8	1.4	2
431	Central Córdoba	0.8	1.4	2
	Santiago del Estero	7	7	
432	Barracas Central	0.8 7	1.4 8	2
433	Zalgiris Vilnius	1.1	1.7 9	2
434	St Mirren	0.9	1.5	2
435	Central Coast Mariners	1.2	2.0	2
436	Union Santa Fe	0.8	1.4	2
		5	6	
437	Peterborough United	1.0	1.6 8	2
438	IFK Norrkoping	1.0	1.7 8	2
439	Derby County	0.9	1.6	2
440	FC Cartagena	0.8	1.5 3	2
441	FC Vaduz	0.9 6	1.6	2
442	Sporting Gijón	0.8	1.4 8	2
443	KV Kortrijk	1.0	1.8	2
444	Inter Miami CF	1.0	1.7 7	2
445	Kalmar FF	0.9	1.6	2
446	Reading	0.9	1.5	2
447	US Quevilly	0.9	1.6	2
448	Ascoli	0.8	1.5	2
449	SD Huesca	0.7	1.3	2
450	Odd BK	0.9	1.6	2
45.4	I/:l	1	2	
451	Kilmarnock	0.9	1.6 3	2

452	St Johnstone	0.8	1.5 8	2
453	OFI Crete	0.9	1.6	2
454	Mirandes	0.8	1.5 6	2
455	Valenciennes	0.9	1.6 2	2
457	1. FC Magdeburg	1.0	1.8 8	2
458	Modena	0.9	1.6 7	2
459	Reggina	0.8	1.5 6	2
460	Rodez	0.7 5	1.4 4	2
461	HJK Helsinki	0.9 4	1.7 1	2
462	Grenoble	0.6 1	1.2	2

463       Lyngby       0.8       1.6       2         465       Portsmouth       0.8       1.5       2         2       7       2       7         468       Cittadella       0.7       1.4       2         469       Avispa Fukuoka       0.7       1.5       2         8       6         473       Amiens       0.8       1.6       2         3       3       3       3         474       Orlando Pirates       0.7       1.5       2         5       3       3       2         476       SD Ponferradina       0.7       1.5       2         479       Atromitos       0.7       1.4       2         480       Arsenal Sarandi       0.7       1.5       2         5       4         484       Burgos       0.6       1.4       2					
465         Portsmouth         0.8         1.5         2           468         Cittadella         0.7         1.4         2           469         Avispa Fukuoka         0.7         1.5         2           8         6         2         3         3           474         Orlando Pirates         0.7         1.5         2           5         3         3         2           476         SD Ponferradina         0.7         1.5         2           7         5         3         2           479         Atromitos         0.7         1.4         2           1         8         3         3         3           480         Arsenal Sarandi         0.7         1.5         2           5         4         4         4         2	463	Lyngby		1.6	2
468     Cittadella     0.7     1.4     2       469     Avispa Fukuoka     0.7     1.5     2       473     Amiens     0.8     1.6     2       474     Orlando Pirates     0.7     1.5     2       5     3       476     SD Ponferradina     0.7     1.5     2       7     5       479     Atromitos     0.7     1.4     2       480     Arsenal Sarandi     0.7     1.5     2       5     4       484     Burgos     0.6     1.4     2			6	1	
468         Cittadella         0.7         1.4         2           469         Avispa Fukuoka         0.7         1.5         2           8         6         2         3         3           474         Orlando Pirates         0.7         1.5         2           5         3         3         2           476         SD Ponferradina         0.7         1.5         2           7         5         3         2           479         Atromitos         0.7         1.4         2           1         8         8         6         4           480         Arsenal Sarandi         0.7         1.5         2           5         4         4         8         0.6         1.4         2	465	Portsmouth	0.8	1.5	2
469     Avispa Fukuoka     0.7     1.5     2       473     Amiens     0.8     1.6     2       474     Orlando Pirates     0.7     1.5     2       5     3       476     SD Ponferradina     0.7     1.5     2       7     5       479     Atromitos     0.7     1.4     2       480     Arsenal Sarandi     0.7     1.5     2       5     4       484     Burgos     0.6     1.4     2			2	7	
469       Avispa Fukuoka       0.7       1.5       2         473       Amiens       0.8       1.6       2         3       3       3       3         474       Orlando Pirates       0.7       1.5       2         5       3       2         476       SD Ponferradina       0.7       1.5       2         7       5       4         479       Atromitos       0.7       1.4       2         1       8         480       Arsenal Sarandi       0.7       1.5       2         5       4         484       Burgos       0.6       1.4       2	468	Cittadella	0.7	1.4	2
473     Amiens     0.8     1.6     2       474     Orlando Pirates     0.7     1.5     2       5     3       476     SD Ponferradina     0.7     1.5     2       7     5       479     Atromitos     0.7     1.4     2       480     Arsenal Sarandi     0.7     1.5     2       5     4       484     Burgos     0.6     1.4     2				2	
473     Amiens     0.8     1.6     2       3     3     3       474     Orlando Pirates     0.7     1.5     2       5     3       476     SD Ponferradina     0.7     1.5     2       7     5       479     Atromitos     0.7     1.4     2       480     Arsenal Sarandi     0.7     1.5     2       5     4       484     Burgos     0.6     1.4     2	469	Avispa Fukuoka	0.7	1.5	2
3   3   3   474   Orlando Pirates   0.7   1.5   2   5   3   3   476   SD Ponferradina   0.7   1.5   2   7   5   5   4   480   Arsenal Sarandi   0.7   1.5   2   5   4   484   Burgos   0.6   1.4   2			8	6	
474     Orlando Pirates     0.7     1.5     2       5     3       476     SD Ponferradina     0.7     1.5     2       7     5       479     Atromitos     0.7     1.4     2       1     8       480     Arsenal Sarandi     0.7     1.5     2       5     4       484     Burgos     0.6     1.4     2	473	Amiens	0.8	1.6	2
476     SD Ponferradina     0.7     1.5     2       479     Atromitos     0.7     1.4     2       480     Arsenal Sarandi     0.7     1.5     2       5     4       484     Burgos     0.6     1.4     2			3	3	
476         SD Ponferradina         0.7         1.5         2           479         Atromitos         0.7         1.4         2           480         Arsenal Sarandi         0.7         1.5         2           5         4           484         Burgos         0.6         1.4         2	474	Orlando Pirates	0.7	1.5	2
479 Atromitos 0.7 1.4 2 480 Arsenal Sarandi 0.7 1.5 2 484 Burgos 0.6 1.4 2			5	3	
479     Atromitos     0.7     1.4     2       480     Arsenal Sarandi     0.7     1.5     2       5     4       484     Burgos     0.6     1.4     2	476	SD Ponferradina	0.7	1.5	2
480 Arsenal Sarandi 0.7 1.5 2 5 4 484 Burgos 0.6 1.4 2			7	5	
480     Arsenal Sarandi     0.7     1.5     2       5     4       484     Burgos     0.6     1.4     2	479	Atromitos	0.7	1.4	2
5 4 484 Burgos 0.6 1.4 2			1	8	
<b>484</b> Burgos 0.6 1.4 2	480	Arsenal Sarandi	0.7	1.5	2
20.800			5	4	
9 7	484	Burgos	0.6	1.4	2
			9	7	

#### **DISCUSIONES DE RESULTADO**

La gráfica de codo proporciona información sobre la variabilidad explicada por el modelo en función de k. Se busca un equilibrio entre tener un número suficiente de clústeres para representar variaciones significativas en los datos y evitar tener demasiados clústeres, lo que podría conducir a una segmentación excesiva y poco significativa.

En este caso, se considerar el punto en la gráfica de codo donde la inercia se estabiliza: k = 3.

#### CONCLUSIONES

En conclusión, el análisis de clustering con K-Means ofrece una herramienta valiosa para entender la estructura subyacente en los datos, en este caso de los equipos de fútbol. La elección adecuada de k es esencial y puede tener un impacto significativo en la interpretación de los resultados. Además, la asignación de etiquetas a cada equipo proporciona una clasificación que puede ser útil para diversos propósitos, como análisis estratégico y toma de decisiones.

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